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FINAL BURIED DRUM REMOVAL IN ON-SITE CONTAINMENT AREA CONSTRUCTION COMPLETION REPORT

AMERICAN CHEMICAL SERVICE, INC. NPL SITE GRIFFITH, INDIANA

MWH File No. 2090601

Prepared For:

American Chemical Service NPL Site RD/RA Executive Committee Griffith, Indiana

Prepared By:

MWH 27755 Diehl Road, Suite 300 Warrenville, Illinois 60555

March 2003

EPA Region 5 Records Ctr.



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ACRONYMS AND ABBREVIATIONS

ACS American Chemical Service, Inc.
CCR Construction Completion Report
CRZ Contamination Reduction Zone
ESC Environmental Science Corp.
ERT Earth Resources Technology, Inc.

GPS Global Positioning System
GWTP Groundwater Treatment Plant
Hazcat Hazardous Characterization
HDPE High-density Polyethylene

IDEM Indiana Department of Environmental Management

ISVE In-situ Vapor Extraction

KES Koester Environmental Services

K-P Area Kapica-Pazmey Area

MEI Midwest Environmental Inc.
NPL National Priorities List

OFCA Off-Site Containment Area (Off-Site part of the ACS NPL Site which is not

part of the Operating ACS facility)

ONCA On-Site Containment Area (On-Site operating ACS facility)

PCB Polychlorinated Biphenyl
PID Photo-Ionization Detector
PPE Personal Protection Equipment
PRP Potentially Responsible Party

RCRA Resource Conservation and Recovery Act

RI Remedial Investigation ROD Record of Decision SBPA Still Bottom Ponds Area

SCBA Self-contained Breathing Apparatus

Site NPL Site S.U. Standard Unit

TSDF Treatment, Storage and Disposal Facility
U.S. DOT United States Department of Transportation
U.S. EPA United States Environmental Protection Agency

VOC Volatile Organic Compound Work Plan Buried Drum Removal Plan

1.0 INTRODUCTION

This Construction Completion Report (CCR) summarizes work undertaken to excavate, characterize, and incinerate buried drums and debris located in the On-Site Containment Area (ONCA) of the American Chemical Service, Inc. (ACS) NPL Site (Site) in Griffith, Indiana. MWH conducted the excavation and characterization activities during April and May 2001 and the disposal activities during November 2001.

1.1 SITE BACKGROUND

The Site is an active chemical manufacturing plant located at 420 South Colfax Avenue in Griffith, Indiana. The Site began operations in 1955, with reclamation of spent solvent waste. The Site accepted solvent mixtures containing alcohols, ketones, esters, chlorinateds, aromatics, aliphatics, and glycols that contained various residues. Other processes that have operated at the Site since its inception include specialty chemical manufacturing in small batches, burning of still bottoms and non-reclaimable materials in incinerators (1965-1970), epoxidation and bromination operations, and storage and blending of wastestreams for ACS' secondary fuel program.

Past operations have impacted five land disposal areas: the ONCA, the Still Bottom Ponds Area (SBPA), the Treatment Lagoons, the Off-Site Containment Area (OFCA), and the Kapica-Pazmey Area (K-P Area), as shown on Figure 1. A portion of the wetland located to the west of the ACS Site was also impacted.

During the mid-1960's, drums were buried at the ACS plant. Approximately 400 drums containing sludge and semi-solids of unknown types were reportedly disposed of inside the plant (this area was named the "On-Site Containment Area"). The approximate area of onsite drum storage was a 250-foot by 450-foot parcel, located in the northern third of the fenced ACS facility. The drum storage area was apparent in a 1970 aerial photograph. However, an aerial photograph from 1973 indicates that the area was clear with no sign of drums on the ground surface.

The Remedial Investigation (RI) conducted by MWH between 1988 and 1990 confirmed the presence of buried drums. The extent of the buried drums was further defined by the 1998 geophysical survey conducted by Earth Resources Technology, Inc. (ERT). MWH prepared an Agency-approved work plan entitled Buried Drum Removal Plan (Work Plan) in January 1999 to guide the excavation and disposal of the drums buried in the ONCA.

1.2 PURPOSE OF DRUM REMOVAL

According to the Final Remedial Design Report (Montgomery Watson, August 1999), the purpose of the ONCA drum excavation and off-site disposal is to eliminate a primary source of contaminants, especially volatile organic compounds (VOCs) and lead.

In addition, the drum removal process was designed to minimize current and future worker exposure to contaminated soil, groundwater, buried drums/liquid wastes/sludges, or other substances which would result in a risk greater than the acceptable risk range identified in the 1999 United States Environmental Protection Agency (U.S. EPA)-issued Record of Decision (ROD). The drum removal and disposal activities were conducted in accordance with the Agency-approved Work Plan.

1.3 REPORT ORGANIZATION

This report is organized in eight sections:

SECTION 1 - INTRODUCTION

This section discusses the background of the Site and the purpose of the drum excavation and disposal.

SECTION 2 – SITE INVESTIGATION

This section summarizes the primary investigations conducted to determine the location and characteristics of the drums and debris buried in the ONCA. It also discusses the preparation of the Agency-approved Work Plan designed to guide the excavation and disposal process.

SECTION 3 – DRUM REMOVAL ACTIVITIES

This section summarizes the drum and debris removal activities, including the site preparation, mobilization, drum removal, and site restoration.

SECTION 4 – DRUM CHARACTERIZATION ACTIVITIES

This section summarizes the drum and debris characterization activities, including documentation, sampling, characterization, and temporary storage of the drums.

SECTION 5 - DRUM DISPOSAL ACTIVITIES

This section summarizes the drum and debris disposal activities including the segregation of wastestreams based on drum characterization data, the selection of a disposal facility, and the transportation of excavated drum waste off-site for incineration.

SECTION 6 - MATERIAL TESTING AND QUALITY CONFIRMATION

This section summarizes the material testing and quality confirmation measures employed to ensure that the completed activities met the requirement of the Final Remedial Design Report.

<u>SECTION 7 – HEALTH AND SAFETY</u>

This section summarizes the health and safety measures employed to maintain a safe working environment through the project, including health and safety meetings, and the use of air monitoring and personal protective equipment.

SECTION 8 – SUMMARY

This section briefly summarizes the activities described in this report.

SECTION 9 – REFERENCES This section summarizes references cited in this report.	

2.0 SITE INVESTIGATION

2.1 REMEDIAL INVESTIGATION

MWH conducted a RI of the Site from 1988 to 1990. During the RI, a test pit was excavated in the ONCA in an area mounded slightly above the typical ACS facility grade. It was thought that the mounded area reflected the presence of buried drums. Drums were discovered in this test pit. The drums appeared to be buried on their sides and closely packed together. Various liquids were observed in soil surrounding the drums. MWH observed that the majority of the drums were dented, corroded, and/or mangled. Native soil was encountered at about five feet below the buried drums, or approximately 15 feet below ground surface.

After the completion of the RI and subsequent Feasibility Study in 1992, the U.S. EPA issued the first ROD in 1992. The remedy outlined in the ROD included the removal of approximately 400 drums of unknown sludges and semi-solids suspected to be buried in the ONCA.

2.2 ADDITIONAL INVESTIGATIONS

MWH acquired additional information about the condition and placement of buried drums in the ONCA during various construction activities. During the installation of a water line to the Groundwater Treatment Plant (GWTP) in early 1997, 41 drums were discovered in the ONCA and subsequently removed. These drums were placed into overpack drums and temporarily placed in a designated area of the Off-Site Area. Of these 41 drums, 40 were intact and one was damaged. MWH observed the soil around the damaged drum to be discolored. The condition of these drums suggested that many of the drums in the ONCA were likely intact. Buried drums were also encountered in 1997 during a separate excavation associated with the barrier wall installation along the northern end of the facility. It was noted that some of the drums in this excavation were packed on top of each other, up to three drums high.

To further define the extent of the buried drum area and estimate the quantity of buried drums, the ONCA was surveyed using both magnetic and ground penetrating radar surveys. ERT conducted a geophysical survey on February 23 and 24, 1998 to delineate the extent of buried drums. ERT identified three areas of geophysical anomalies that potentially contained buried drums. This investigation resulted in a revised estimate of approximately 1,000 to 2,500 buried drums, based on total areal extent of the anomalies, previous test pits, and the assumption that the drums were stacked three-high in the subsurface. ERT did not physically confirm at that time that the three delineated areas did contain drums, but MWH planned to further investigate to confirm and delineate the extent of buried drums and to evaluate the drums' integrity prior to excavation.

2.3 DRUM REMOVAL WORK PLAN

MWH prepared a Work Plan, entitled the Buried Drum Removal Plan, in January 1999 at the request of the U.S. EPA. The purpose of the plan was to guide the sampling, field characterization, laboratory analysis, transportation, and disposal/incineration of drum wastes buried in the ONCA. MWH and its subcontractors used the Work Plan to complete the project. The Final Remedial Design Report refers to the Work Plan when discussing the completion of the drum removal activities.

3.0 DRUM REMOVAL ACTIVITIES

A summary of the drum removal activities is included below. Appendix A contains a photograph log and Appendix B contains a chronological summary of construction activities.

3.1 SITE PREPARATION

3.1.1 Location of Buried Drum Area Extents

Using the location information determined by ERT in 1998, MWH established the perimeters of the three areas as shown on Figure 2, designated Area A, Area B, and Area C, that potentially contained buried drums. MWH marked these perimeters prior to the physical confirmation of the drum area extents using a global positioning system (GPS) unit and stakes.

3.1.2 Physical Confirmation of Drum Area Extents

During February 2001, MWH physically confirmed the extents of the buried drum areas using Midwest Environmental Inc. (MEI). Prior to work beginning, an exclusion zone was constructed around the perimeter of the investigation area using yellow caution tape. The exclusion zone was expanded in the areas where the excavation zone needed to extend further outward. MWH personnel directed the equipment operator to dig a trench four to five feet deep around the perimeter of each of the three delineated areas using a trencher. Due to the high water table and potential collapse of the trench sidewalls, continuous trenching to a depth of eight feet was not possible. After every ten linear feet of trenching, the trench was dug down to a depth of eight feet to check for drums or drum debris. If drums were encountered while excavating the test trench, the excavation perimeter was widened to determine the extent of the buried drums. Soil removed during the trenching investigation was temporarily placed alongside the excavation. At the end of the day, it was moved to the Fire Pond in the On-Site Area. The trenches were backfilled with white gravel. The white gravel was used to identify the confirmed extents of the buried drums during removal activities.

Through this process, MWH determined that only two of the delineated areas, Area A and Area B, actually contained buried drums. Buried drums were not encountered while excavating the third area, Area C. Air monitoring was conducted throughout the trenching process. Level B personal protective equipment (PPE) which included supplied air was worn for all confirmation work. The air monitoring results were not recorded. Equipment used during the investigation was decontaminated by pressure washing after completion of the task.

3.1.3 Construction of Concrete Drum Staging Area

Ryan Construction constructed a 50-foot by 200-foot concrete drum staging pad during March and April 2001. The pad, shown on Figure 2, was installed north of the drum excavation areas. The pad was sloped to drain into a sump located in the center of the

north edge of the pad. A pump was installed in the sump and connected to nearby BWES extraction well EW-18. Liquids that collected in the sump were pumped to EW-18 and then through the existing conveyance piping running to the groundwater treatment plant (GWTP). A grounding system was installed on the pad so that excavated drums could be bonded and grounded to minimize the flammability hazards.

3.1.4 Preparation for Excavation Dewatering

Due to the high water table at the Site, ground water in the excavation was encountered relatively close to ground surface. To handle the groundwater, a two-inch diameter high-density polyethylene (HDPE) pipe was installed between the excavation areas and the Fire Pond. Water from the excavations was managed by connecting a diesel-powered trash pump to the pipe to dewater the excavation areas. Water that was pumped to the Fire Pond was then pumped to the GWTP for treatment.

3.2 MOBILIZATION AND HEALTH AND SAFETY PREPARATION

Koester Environmental Services (KES), the sub-contractor selected to perform the drum excavation activities, mobilized to the Site on April 23, 2001. A construction kick-off meeting was held at the Site on the same day. A health and safety kickoff was held for all personnel involved in the work and ACS personnel on April 25, 2001. MWH discussed the history of the Site and showed a video of the buried drums discovered during the installation of a water line to the GWTP in early 1997. MWH also demonstrated proper donning and doffing of Level B PPE. The meeting concluded by driving the route to the nearest hospital to show representatives from each company the fastest way in case of an emergency.

Daily health and safety meetings were conducted on Site for the personnel involved in the drum removal, including ACS personnel. Each safety meeting focused on the safety issues related to that day's activities.

Level B PPE, including positive-pressure supplied breathing air systems, was used for the intrusive work conducted inside the exclusion zone. Breathing air cylinders were mounted on the excavator and backhoe equipment for use by the equipment operators. Additional air cylinders were located inside the exclusion zone and air lines were installed for the workers inside the exclusion zone. The PPE and breathing air systems were checked for proper operation and fit prior to initiating work. Health and safety is also discussed in Section 7.0 of this report.

MWH called the Indiana underground buried utility service, Holy-Moly, prior to beginning excavation. No utilities were known to exist in the excavation areas except for the potable water line that connected the GWTP to the main water line along Colfax Avenue. This line ran along the north edge of excavation Area B and was not affected by the excavation.

3.2.1 Establishment of Exclusion Zone, Decontamination Areas, and a Temporary Drum Storage Area

Prior to excavation, KES established an exclusion zone using snow fencing. Initially, the exclusion zone extended around the entire drum pad and excavation Area A, approximately fifty feet beyond the excavation boundary. A Contamination Reduction Zone (CRZ) was established in the southwest corner of the Exclusion Zone. This area was used by KES and MWH personnel for decontamination of PPE and equipment prior to leaving the Exclusion Zone. The CRZ was covered with an awning and included a boot wash, dressing area, and cooling station. When the excavation of Area A was completed, the exclusion zone was adjusted to encompass Area B and the entire drum pad.

3.3 DRUM REMOVAL AND RESTORATION

The drum excavation began on April 27, 2001 and was completed on May 24, 2001. Buried drum Area A was excavated first and then Area B. The compositions of the drums in each area were similar, though the drums excavated from Area B were generally found to be in better condition. Table 1 summarizes the drum excavation activities from each day.

3.3.1 Excavation of Buried Drums and Visually-Impacted Soils

After the necessary health and safety and excavation preparations had been completed, excavation activities began. KES used a Caterpillar 322B excavator to first create a sump area on the north side of excavation Area A. A sump pump was placed in the excavation to collect excessive water and pump it to the Fire Pond.

KES used the excavator equipment and a three to four person crew to uncover the buried drums. One crew member was responsible for health and safety activities, including air monitoring. The other two to three crew members assisted the excavator operator in removing the drums and drum debris.

3.3.2 Placement of Drums into Overpack Drums and Roll-Off Boxes

Each drum was inspected after it was excavated and if a drum was judged to be intact, it was carefully lifted by the excavator using a sling and guided into an overpack drum and sealed by KES crew members. The filled overpack drums were then transported by loader onto the nearby drum staging pad. Once on the pad, the drums were connected to the grounding system to minimize the flammability hazard.

If a drum was judged to be non-intact, debris, or in such poor condition that it could not successfully be placed into an overpack drum, it was stockpiled to the side of the excavation area. At the end of each day's excavation activities, the stockpiled non-intact drums were counted and placed into chemical resistant, plastic-lined hazardous waste roll-off boxes. The roll-off boxes were then covered and staged near the drum staging pad.

As the excavation progressed, the majority of the excavated drums were classified as non-intact. The overall percentage of non-intact drums was greater than previous Site test pit

excavations had indicated. The initial scope of work had anticipated that all debris excavated would be staged in the Fire Pond area. However, due to the large number of non-intact drums encountered, it was decided not to place the debris in the Fire Pond. A large amount of buried drum debris would have made the installation of the On-Site Area In-Situ Vapor Extraction (ISVE) wells much more difficult by creating obstacles that would prevent drilling. To minimize the potential for ISVE system installation and operation problems, the drum debris was placed into roll-off boxes for off-site incineration.

3.3.3 Placement of Soil into Fire Pond

As the buried drums and debris were removed, additional soil that surrounded the drums and debris was also removed and stockpiled at the edge of the excavation area. Approximately 2,496 cubic yards of visually impacted soil were removed from the excavation. Excavated soil was transported daily to the Fire Pond for on-site disposal. The soil was later covered with the On-Site Area cover where it will be treated by the On-Site Area ISVE system.

3.3.4 Restoration of Completed Excavation Areas

After the drum excavation was complete in each excavation area, the excavation area was backfilled with imported clean fill from a local borrow source. The backfilled excavation was compacted by moving the excavator across the area.

4.0 DRUM CHARACTERIZATION ACTIVITIES

4.1 FIELD SAMPLING AND DOCUMENTATION OF DRUMMED WASTE

As each overpacked drum was transported from the excavation and placed on the drum staging pad, it was assigned a sequential identification number. This number was written on the drum with a drum-marking crayon. After being grounded, the drum was then opened with a non-sparking hammer and sampled using a coliwasa sampling pipette. Two samples were collected from each drum: one 4-ounce sample was collected for field analysis and one 16-ounce sample was collected and stored by MWH for future use. A chain-of-custody document was created for each set of samples collected. Further analysis of the 16-ounce samples was not needed to complete the waste characterizations. Both sample sets (the 4-ounce and 16-ounce samples) were later placed into two 55-gallon drums and disposed of during the drum disposal (see footnote 1 on Table 8).

Non-intact drums were also assigned a sequential identification number, though the number was not written on the drum itself and the drum was not sampled. For this reason, there are large gaps in the sequential-numbering. The missing numbers represent non-intact drums.

4.2 FIELD CHARACTERIZATION OF DRUMMED WASTE

A mobile laboratory was brought to the Site and located west of the excavation area. A senior MWH chemist audited the laboratory during the first few days of field characterization and confirmed that the laboratory could meet the project's quality objectives. Each sample collected was analyzed in the field by KES for 13 Hazardous Categorization (Hazcat) criteria:

- Water Solubility
- pH of Aqueous Solutions
- Hexane/Dichloromethane (50/50 Solution) Solubility
- Alcohol Solubility (Methanol)
- Xylene Solubility
- Flash Point (Flammability)
- Bilstein Copper Wire Test for Chlorinated Compound Detection
- Polychlorinated biphenyl (PCB) Analysis of Oily Samples
- Organic Peroxide Test
- Oxidizing Material Test
- Sulfide Material Test
- Cyanide Material Test
- Iodine Crystal Test

The water solubility test was used as an initial step to determine which samples were aqueous. Aqueous samples were then tested for pH to determine the potential for acidic or caustic properties. The hexane/dichloromethane solubility test, the alcohol solubility test,

and the xylene solubility tests were used to help determine if a sample contained organic compounds. In addition, the alcohol and xylene solubility tests were used to create a liquid suspension of solid and semi-solid wastes for the Bilstein copper wire test.

Initial flammability was determined using a match to ignite a small amount of sample. If the match test was inconclusive, a Penske Martin flash point detector was used to determine if the waste was flammable below 140 degrees Fahrenheit. The temperature at which a sample was flammable gave an indication of its composition. The Bilstein copper wire test was used to determine if a sample contained chlorinated compounds. PCB analysis was performed on samples suspected of containing PCB waste. The rest of the tests were used to identify other possible hazards of the waste samples collected. The last five tests, which determined if a sample was an oxidizing material or contained organic peroxides, sulfides, cyanide, or iodine were colormetric. They could only be performed on wastes that were not too highly colored. Together, these 13 criteria helped to determine the type of substance sampled.

The tests were performed in a mobile laboratory at the Site under a fume hood except for the PCB analyses, which were performed off site and analyzed by Environmental Science Corp. (ESC) of Mt. Juliet, Tennessee. Table 2 summarizes the field characterization results for each drum analyzed.

The results of the wastes analyzed in the laboratory indicated that they were typical wastes encountered from solvent recycling activities. These wastes included paints, inks, dyes, paint solids, solvents, oils, and mixtures of these products. In addition, a number of paraffin-type wastes were encountered. The rest of the drums contained sand or water that had flowed into the drum replacing the waste products that had leaked out.

Using the field analyses results, KES placed the sampled drums into five segregated groups on the drum-staging pad. These groups were:

- Flammable Wastes
- Chlorinated Wastes
- Paraffin Wastes
- Oily Wastes
- Non-Hazardous Wastes

Initial Hazcat tests indicated that 11 samples could potentially contain PCBs (eight oily wastes and three chlorinated paraffin wastes). The eight oily wastes were composited into one sample identified as PCB-1. The three chlorinated paraffins were composited into one sample identified as PCB-2, for PCB analysis. The samples were shipped to ESC for PCB analysis. Neither sample contained PCB levels above the detection limits. The PCB laboratory results are included in Appendix C.

4.3 TEMPORARY STORAGE OF EXCAVATED DRUMMED WASTE

The excavated drums and drum debris were securely stored after excavation until laboratory analysis was complete and the drums and debris could be shipped off-site for incineration. For a discussion of drum disposal, see Section 5.0. The overpacked drums were stored on the drum staging pad. The roll-off boxes containing drum debris were covered with chemical-resistant covers and staged next to the drum staging pad. The excavated material was contained within the secure gates of the ACS Facility. MWH and ACS facility personnel performed daily air monitoring of the hazardous waste roll-off boxes and overpacked drums during this storage period. No air monitoring readings above background were observed. The results collected by MWH were recorded in the MWH Daily Construction Reports.

4.4 SAMPLING, CHARACTERIZATION, AND TEMPORARY STORAGE OF ADDITIONAL DRUMS FROM PREVIOUS SITE ACTIVITIES

In addition to the drums and drum debris excavated from the Site, 31 additional drums had been stored on the drum staging pad. These drums, resulting from previous Site activities, consisted of four drums of soil from an unidentified source, five drums of product, 11 drums of water phase liquid, four drums of soil cuttings from the ORC® Pilot Study, and seven empty drums (see Figure 3).

Twenty of these drums were sampled and field analyzed by KES (the four drums of soil cuttings from the ORC® Pilot Study and seven empty drums did not require characterization). The drum numbers assigned to these drums were 2623 through 2642. The Hazcat analysis results are summarized below:

- Eleven drums contained water with pH ranging from 6 to 12 standard units (S.U.)
- Four drums contained sand, mud, or rocks
- It was determined that of the five drums initially identified as "product":
 - One drum contained water with a thin oily sheen that had mild chlorination, but there was insufficient oil in the sample for a laboratory PCB analysis
 - Three drums contained paint solids (one of these was flammable)
 - One drum contained wet sand exhibiting mild chlorinated reaction

These drums were not included in the total drum numbers from the excavation project shown on Table 1, however they are included in the Field Characterization and Disposal Summary (Table 2). These drums were later disposed of along with the excavated drums as dictated by their characterization test results.

5.0 DRUM DISPOSAL ACTIVITIES

5.1 EVALUATION OF DRUM CHARACTERIZATION TESTING RESULTS

The Hazcat Analysis data was input into a database on a daily basis. Using the Hazcat results, KES segregated the overpacked drums into five wastestreams, as discussed in Section 4.2. The final count of the drums by wastestream is as follows:

Flammable Wastes
Chlorinated Wastes
78 Drums
Paraffin Wastes
16 Drums (3 chlorinated paraffins are included in chlorinated waste above)
Oily Wastes
8 Drums

Oily Wastes 8 Drums
Non-Hazardous Waste 46 Drums
Total Drums Categorized 249 Drums

An MWH chemist reviewed and approved the completed database and all Hazcat Analyses.

5.2 SELECTION OF A TREATMENT, STORAGE, AND DISPOSAL FACILITY (TSDF)

MWH worked with the U.S. EPA and Indiana Department of Environmental Management (IDEM) to best manage and dispose of the excavated waste. A time extension for the disposal was granted by the state of Indiana to ensure that the best facility was selected. The time extension was a 30-day extension that extended the allowable on-site storage date from August 28, 2001 to September 27, 2001. On October 30, 2001, IDEM conducted a Resource Conservation and Recovery Act (RCRA) compliance audit of the Site including MWH's work. IDEM issued a report of the inspection indicating that MWH's work with regard to drum storage was in compliance with all applicable regulations. A copy of the compliance letter is included in Appendix D.

After a thorough check of facility records, and approval by the U.S. EPA and IDEM, Onyx Environmental Services was selected as the Treatment, Storage and Disposal Facility (TSDF) for the incineration of the excavated waste.

Onyx reviewed the Hazcat Analyses created by KES and examined the drum samples stored by MWH. Upon completion of their review, Onyx revised the wastestream profiles to assist in the disposal and incineration process. They created the following four wastestream profiles:

- Flammable, chlorinated, and non-flammable organic liquids (Profile #540688)
- Flammable and chlorinated solids (Profile #540689)
- Chlorinated paint and organic solids (Profile #540696)
- Sand and rocks (Profile #540691)

Buried Drum Removal in ONCA

March 2003

American Chemical Service, Inc.

Tables 3, 4, 5, and 6 summarize the drums contained in each wastestream profile. Table 7 lists the drums determined to contain water, which were subsequently treated in the on-site GWTP.

5.3 TRANSPORTATION OF DRUMMED WASTE TO TSDF

On November 5, Onyx shipped 234 overpacked drums by truck to their Port Arthur, Texas facility for incineration. 227 were drums from the excavations, 5 contained liquid, and 2 contained the unused characterization sample material. The remaining 22 drums, which had been excavated and characterized as containing water, were emptied into the GWTP for treatment. The empty drums that resulted were later sheared and placed into a roll-off box for disposal. Figure 3 contains a flow chart that summarizes the disposal process. Table 2 summarizes the disposal process for each drum.

Before, during, and after the removal of waste from the Site, Onyx adhered to applicable federal, state, and local requirements. Hazardous Waste Transportation Manifests, included in Appendix E, were completed for each load of waste. Vehicles used to transport the excavated waste were labeled with the appropriate placards as required by the U.S. Department of Transportation (U.S. DOT). The vehicles were also weighed before and after loading to record the weight of waste transported and ensure that the vehicles complied with applicable U.S. DOT regulations. Table 8 summarizes the quantities of drummed waste shipped for off-site incineration.

5.4 CONSOLIDATION OF DRUM DEBRIS INTO BULK WASTE

Prior to shipment for off-site incineration, the non-intact drums that had been placed in hazardous waste roll-off boxes were consolidated. The consolidation process consisted of emptying the contents of a roll-box onto the drum staging pad, which was clear after the overpacked drums were shipped for off-site incineration. A shearing-attachment connected to an excavator snipped the drum debris into smaller pieces. The resulting pieces were then loaded into new roll-off boxes for shipment to the Onyx facility. This consolidation was performed so the TSDF could better handle the material. The repacking process also allowed MWH to more equally distribute the weight of the debris so that each roll-off box load would meet applicable weight requirements for transportation. The excavated non-intact drum debris was consolidated and placed in bulk containers, characterized, and shipped off-site from November 8 to 19, 2001.

During the consolidation process, small amounts of residue and liquid accumulated on the drum pad. The residue and liquid were washed into the drum pad sump during decontamination of the pad, pumped to the on-site GWTP, and treated.

5.5 TRANSPORTATION OF BULK WASTE TO TSDF IN ROLL-OFF BOXES

After consolidation, 19 roll-off boxes containing 380 cubic yards of drum debris were shipped to Port Arthur, Texas for off-site incineration. Hazardous Waste Transportation Manifests, included in Appendix E, were completed for each load of bulk waste. Vehicles used to transport the excavated waste were labeled with the appropriate placards as required by U.S. DOT. The vehicles were also weighed before and after loading to record the weight of waste transported and ensure that the vehicles complied with applicable U.S. DOT regulations. Table 9 summarizes the quantities of bulk waste shipped for off-site incineration.

6.0 MATERIAL TESTING AND QUALITY CONFIRMATION

Material testing and quality confirmation measures were taken in accordance with the Work Plan to assure that the completed drum excavation and disposal met the applicable performance requirements. Prior to excavation activities, MWH physically delineated the extents of the buried drums to ensure that all drums were removed from the excavation areas. During the drum excavation and disposal activities, MWH personnel were on-site to oversee progress and ensure the Work Plan was being followed. Visually impacted soil was excavated during the drum removal activities.

MWH also confirmed the quality of the laboratory procedures used for the project. A MWH chemist inspected the Hazcat laboratory trailer and analytical equipment and interviewed the laboratory operator and concluded that the laboratory could analyze the samples in a manner that met the project's criteria in a safe manner. For quality control purposes, two samples were collected from each overpacked drum: one was analyzed by KES and the other was stored by MWH in case it would be needed for further analysis. Daily copies of the documentation generated by KES were given to MWH, including chain-of-custody forms, Hazcat forms for each sample analyzed, and daily activities summary forms. At the completion of the excavation and analysis, an MWH chemist reviewed all field chemistry data for consistency.

Prior to beginning disposal and incineration activities, Onyx reviewed the Hazcat sample results, viewed the stored samples held by MWH, and performed additional compatibility testing on selected samples to determine proper disposal. Both sample sets were later disposed of during the drum disposal.

A certification letter for the sand backfill is included in Appendix F. The certification letter is from the material supplier and certifies that the sand was mined as virgin material and does not contain known contaminants.

7.0 HEALTH AND SAFETY

7.1 IDENTIFICATION OF HAZARDS ASSOCIATED WITH THE PROJECT

Section 6.4 of the Work Plan identified the primary chemical and physical hazards associated with the completion of the buried drum excavation and disposal. The primary physical hazards were identified as slips, trips, and falls, being struck by or against heavy equipment, cave-ins around excavation areas, fire/explosion, heat stress, and sharp objects. The primary chemical hazards were identified as contact dermatitis and inhalation or other contact with hazardous substance, including the main chemicals of concern for the Site: benzene, vinyl chloride, and trichloroethene.

The Work Plan identified appropriate hazard control measures for each potential hazard. These control measures, including clear communication between all workers, proper use of PPE, and regular use of the cooling station, were emphasized regularly in the health and safety meetings.

7.2 IMPLEMENTATION OF PROTECTIVE HEALTH AND SAFETY MEASURES

7.2.1 Health and Safety Training

A Kickoff Health and Safety Meeting for the personnel involved in the drum excavation activities, including KES, MWH, the ACS facility, and Black & Veatch, was held on April 25, 2001. A Kickoff Health and Safety Meeting for the personnel involved in the drum disposal activities, including Onyx, MEI, MWH, the ACS facility, and Black & Veatch, was held on November 2, 2001.

Daily Tailgate Safety Meetings were conducted each morning throughout the drum excavation and disposal activities. Topics reviewed at the meetings included basic safety procedures and the specific hazards associated with the day's activities.

Health and safety measures implemented during the initial physical confirmation of drum area extents are discussed in Section 3.1.2.

7.2.2 Coordination with the ACS Facility

MWH was in regular contact with the personnel of the ACS facility throughout the drum excavation and disposal activities. ACS personnel attended the Kickoff Health and Safety Meeting and the Daily Tailgate Safety Meetings. In order to facilitate communication during the activities, MWH and ACS personnel carried two-way radios. ACS personnel also regularly conducted air monitoring in and around their work areas to ensure the safety of their workers.

7.2.3 Exclusion Zone and CRZ

An exclusion zone was established prior to beginning the drum excavation and disposal activities in each buried drum area. Orange snow fencing was placed around the perimeter of the exclusion zone approximately fifty feet or more beyond the work area extents. A CRZ was established at the upwind side of the exclusion zone. This area was used by personnel for decontamination of PPE and equipment prior to leaving the exclusion zone.

7.2.4 Air Monitoring

During the drum excavation, KES employed a full-time health and safety coordinator inside the exclusion zone to perform continuous air monitoring using a photo-ionization detector (PID) meter. Regular air monitoring was conducted along the perimeter of the exclusion zone by MWH using a PID. Draeger Tubes were also regularly used to test for the contaminants of concern (benzene, vinyl chloride, and trichloroethene).

MWH and ACS facility personnel performed daily air monitoring of the hazardous waste roll-off boxes and overpacked drums during the storage period between drum excavation and disposal. No air monitoring readings above background were observed. The results collected by MWH were recorded in the MWH Daily Construction Reports.

During the drum disposal activities, MWH conducted perimeter air monitoring around the exclusion zone, while MEI performed air monitoring inside the exclusion zone. Appendix G includes air monitoring logs generated during the excavation and disposal activities.

7.2.5 Personal Protective Equipment

The drum excavation work conducted inside the exclusion zone was performed in Level B PPE, including Tyvek/Saranex coveralls, neoprene boots, two pair of latex or nitrile gloves, a hard hat, and a positive-pressure self-contained breathing apparatus (SCBA) with supplied air for breathing. When performing oversight of the excavation inside the exclusion zone, MWH personnel also wore Level B PPE. A CRZ was established and used to don and doff PPE. Breathing air cylinders were mounted on the equipment for the use of equipment operators.

Level D PPE was worn whenever the sealed overpacked drums were moved using drum carts and loaded onto trucks for off-site disposal. During the shearing and consolidation of bulk drum debris, all work inside the exclusion zone was performed in Level B PPE.

8.0 SUMMARY

The drum removal process consisted of the excavation, characterization, and disposal of buried drums and drum debris from the ONCA. Table 1 and the flow chart in Figure 3 summarize this process. During the six-week excavation and characterization process, 1,698 drums were removed from within the delineated areas, 249 drums of which were placed in 85-gallon overpack drums. These were subsequently sampled and analyzed on site according to the Hazcat parameters outlined in the Work The remaining 1,449 drums were determined to be degraded drums or drum carcasses and were placed into roll-off boxes for later sampling and disposal. In addition, 2,496 cubic yards of visually impacted soil from the excavation were placed in the Fire Pond.

The overpacked drums and roll-off boxes were stored on site as disposal options were evaluated. Once a decision was reached between MWH, the U.S.EPA, IDEM, and the disposal facility, the overpacked drums were shipped off-site for incineration. The contents of the roll-off boxes were consolidated and shipped off-site for incineration. Two hundred thirty-four overpacked drums of material and 380 cubic yards of drum debris contained in roll-off boxes were sent to Port Arthur, Texas for incineration. (As Figure 3 shows, this number is less than the number initially overpacked because some drums were determined to contain water that was subsequently treated by the on-site GWTP). Certificates of Destruction have been received for all the waste sent to the Onyx facility.

9.0 REFERENCES

Buried Drum Removal Plan, ACS NPL Site (Montgomery Watson, January 1999).

Final Remedial Design Report: Final Remedy, ACS NPL Site (Montgomery Watson, August 1999).

Remedial Investigation Report, ACS NPL Site (Warzyn Engineering, November 1990).

Results of the Geophysical Surveys at the ACS Site (Earth Resources Technology, March 1998).

TMK/jmf/JDP/RAA/PJV/RAA/emp/jmf/JDP/jmf J:\209\\0601 ACS\\0103 Drum Removal\\0010103a034.doc

Table 1
Daily Excavation and Characterization Summary
Drum Removal
ACS NPL Site
Griffith, Indiana

Date	Total Drums	Intact Drums	Non-Intact	Loads of	Visually-	Drums	Samples
1	Excavated	Placed in	Drums Placed	Visually-	Impacted Soil	Sampled	Analyzed
ſ	(Intact plus	Overpacks	in Roll-Off	Impacted Soil	Placed in Fire		(
Ì	Non-Intact)		Boxes	Placed in Fire	Pond (cubic		Į
)				Pond	yards) ¹		}
Area A							
4/27/2001	84	10	74	11_	71.5	0	0
4/30/2001	119	15	104	13	84.5	10	0
5/1/2001	72	13	59	8_	52	15	4
5/2/2001	104	8	96	9	58.5	13	8
5/3/2001	76	4	72	19	123.5	0	13
5/4/2001	0	0	0	30	195	12	0
5/7/2001	125	29	96	11	71.5	0	13
5/8/2001	111	19	92	19	123.5	29	12
5/9/2001	174	30	144	36_	234	19	29
5/10/2001	220	9	211	30	195	30	19
5/11/2001	74	0	74	32	208	9	21
5/14/2001	0	0	0	15	97.5	0	18
Subtotal Area A	1159	137	1022	233	1514.5	137	137
Area B							
5/16/2001	0	0	0	50	325	0	0
5/17/2001	80	12	68	11	6.5	0	0
5/18/2001	119	24	95	38	247	36	0
5/21/2001	142	42	100	9	58.5	24	6
5/22/2001	109	21	88	27	175.5	23	22
5/23/2001	89	13	76	18	117	29	_18
5/24/2001	0	0	0	0	0	0	16
5/29/2001	0	0_	0	0	0	0_	26
5/30/2001	0	0	0	8	52	0	24
Subtotal Area B	539	112	427	151	981.5	112	112
Grand Total	1698	249	1449	384	2496	249	249

Notes:

^{1.} Soil quantity calculated assuming an average load of 6.5 cubic yards

Table 2
Field Characterization and Disposal Summary
ACS NPL Site
Griffith, Indiana

Drum ID	Sample	HazCat	Waste Type	Waste Category	Observations	Waste	Date Shipped	Manifest #	Truck ID#	Current Status
Number*	Date	Date	1	,		Profile#	for Disposal			
1001	4/30/01	5/2/01	Chlorinated	Semi-solid, flammable,	White paint-like substance.	PTA540690	11/5/01	02618880	Ohio Plate	Destroyed
			paint solids	chlorinated, high organic	Semi-Dry. Flammable.				TIR 8695]
				<u> </u>	Chlorinated.					
1002	4/30/01	5/2/01	Solvent	Semi-solid, flammable, high	Black, grease-like semi-solid	PTA540689	11/5/01	02618879	Ohio Plate	Destroyed
				organic					PUF 2906	
1003	4/30/01	5/2/01	Ink or Dye	Liquid, flammable, high	Blue-green liquid ink.	PTA540688	11/5/01	02618877	Oregon Plate	Destroyed
		l	<u> </u>	organic	Flammable Liquid.				HQ 30767	
1004	4/30/01	5/2/01	Paint	Liquid, flammable, high	Green paint - flammable liquid.	PTA540688	11/5/01	02618877	Oregon Plate	Destroyed
1005	4/20/01	6/2/01		organic	C	PTA540688	11/5/01	03610077	HQ 30767	Day and
1005	4/30/01	5/2/01	Adhesive	Liquid, flammable, high	Gray viscous liquid. Adhesive.	P1A540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
1006	4/30/01	5/2/01	Paint Solids	organic Solid, low organic	Flammable Liquid. Soil and blue paint solids.	PTA540690	11/5/01	02618880	Ohio Plate	Destroyed
1000	4/30/01	1000	Failit Solids	Sond, low organic	Nonflammable.	F1A340090	11/3/01	02018880	TIR 8695	Desiroyed
1007	4/30/01	5/2/01	Paint Solids	Solid, high organic,	Yellow paint solids.	PTA540689	[1/5/0]	02618879	Ohio Plate	Destroyed
1007	4730701] 3/201	1 ann sonus	flammable	Flammable.	1 111340007	1175701	02010077	PUF 2906	Destroyed
1008	4/30/01	5/3/01	Paint Solids	Solid, low organic	White paint solids.	PTA540690	11/5/01	02618880	Ohio Plate	Destroyed
1000	1		1 21111 2011 30	Sona, ion organic	Nonflammable.		,	1	TIR 8695	}
1009	4/30/01	5/2/01	Solvent	Liquid, flammable, high	Bi-Layered Oily Liquid. White	PTA540688	11/5/01	02618878	Ohio Plate	Destroyed
1				organic	on bottom, light brown on top.				TIR 8696	,
		ļ]		,				}	
1010	5/1/01	5/3/01	Paint	Liquid, flammable, high	Gray Viscous Paint.	PTA540688	11/5/01	02618877	Oregon Plate	Destroyed
{		1 1		organic	Flammable Liquid.]		,	HQ 30767	
1085	5/1/01	5/1/01	Paraffin	Solid, flammable, high	White crystals, flammable solid.	PTA540690	11/5/01	02618880	Ohio Plate	Destroyed
				organic					TIR 8695	
1086	4/30/01	5/2/01	Chlorinated	Liquid, chlorinated, high	Brown liquid, chlorinated.	PTA540688	11/5/01	02618878	Ohio Plate	Destroyed
			Solvent	organic	Flammable Liquid.				TIR 8696	
1087	5/1/01	5/3/01	Paraffin	Solid, flammable, high	White crystals	PTA540690	11/5/01	02618880	Ohio Plate	Destroyed
				organic			11122	0.000.000	TIR 8695	
1088	5/1/01	5/1/01	Solvent	Liquid, flammable, high	, ,	PTA540688	11/5/01	02618878	Ohio Plate	Destroyed
	60.001	5(2(0)	D. 1-4 G-114-	organic	Liquid.	TT 4 5 40 600	11/5/01	02610070	TIR 8696	- Day - 1
1089	5/1/01	5/3/01	Paint Solids	Solid, high organic	Yellow/Brown semi-solid.	PTA540690	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
1090	5/1/01	5/3/01	Paraffin	Solid, flammable, high	Nonflammable. White Crystals	PTA540690	11/5/01	02618880	Ohio Plate	Destroyed
טפטג	3/1/01	3/3/01	Paramin	organic	Willie Crystais	F1A340090	11/3/01	02010000	TIR 8695	Desiloyeu
1091	5/1/01	5/3/01	Paraffin	Solid, flammable, high	White Crystals	PTA540690	11/5/01	02618880	Ohio Plate	Destroyed
1071	5/1/01	3,3,01		organic	Trinic Crystals		1175701	32010000	TIR 8695	Destroyed
1092	5/1/01	5/3/01	Chlorinated	Liquid, flammable,	Black Liquid	PTA540688	11/5/01	02618878	Ohio Plate	Destroyed
		}	Solvent	chlorinated, high organic]]	• • • • • • • • • • • • • • • • • • • •		TIR 8696	
1093	5/1/01	5/3/01	Chlorinated	Liquid, flammable,	Black Liquid	PTA540688	11/5/01	02618877	Oregon Plate	Destroyed
			Solvent	chlorinated, high organic	·	}	-	l	HQ 30767]
1094	5/1/01	5/3/01	Paint Solids	Semi-solid, flammable, high	White paint, semi-solids.	PTA540689	11/5/01	02618879	Ohio Plate	Destroyed
		, !		organic	Flammable.				PUF 2906	1

Table 2
Field Characterization and Disposal Summary
ACS NPL Site
Griffith, Indiana

Drum ID	Sample	HazCat	Waste Type	Waste Category	Observations	Waste	Date Shipped	Manifest #	Truck ID#	Current Status
Number*	Date	Date		<u> </u>	<u>l </u>	Profile #	for Disposal		L	L
1095	5/1/01	5/1/01	Paint Solids	Liquid, flammable, high organic	Red paint. Flammable.	PTA540689	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
1096	5/1/01	5/3/01	Adhesive	Liquid, flammable, high organic	Viscous yellow liquid (adhesive?). Flammable.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
1097	5/1/01	5/3/01	Paint Solids	Solid, high organic	Dark blue paint solids. Nonflammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1098	5/1/01	5/3/01	Solvent	Semi-solid, flammable, high organic	Black grease-like semi-solid. Flammable.	PTA540689	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
1099	5/1/01	5/3/01	Paint Solids	Semi-solid, chlorinated, high organic	Brown semi-solid. Chlorinated, nonflammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1204	5/2/01	5/7/01	Chlorinated Solvent	Liquid, flammable, chlorinated, high organic	Black semi-solid. Chlorinated, nonflammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1205	5/2/01	5/7/01	Paint Solids	Solid, flammable, high organic	White paint solids. Flammable.	PTA540689	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
1206	5/2/01	5/7/01	Paint Solids	Solid, flammable, high organic	Red paint solids. Flammable.	PTA540689	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
1207	5/2/01	5/7/01	Solvent	Liquid, flammable, high organic	Dark brown liquid (laquer thinner). Nonflammable.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
1208	5/2/01	5/7/01	Chlorinated Solvent	Liquid, flammable, chlorinated, high organic	Clear yellow liquid. Chlorinated, nonflammable.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
1209	5/2/01	5/7/01	Chlorinated Solvent	Liquid, flammable, chlorinated, high organic	Black liquid. Chlorinated solvent.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
1210	5/2/01	5/7/01	Solvent	Liquid, flammable, high organic	Black liquid. Nonflammable.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
1211	5/2/01	5/7/01	Paint Solids	Semi-solid, flammable, high organic	White paint solids.	PTA540689	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
1212	5/2/01	5/7/01	Solvent	Liquid, flammable, high organic	Bi-layered liquid, water on bottom.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
1213	5/2/01	5/7/01	Solvent	Liquid, flammable, high organic	Light yellow on top, milky white on bottom.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
1214	5/2/01	5/7/01	Paint Solids	Semi-solid, flammable, high organic	White paint, semi-solid.	PTA540689	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
1215	5/2/01	5/7/01	Paint Sludge	Solid, high organic	Brown paint solids (sludge). Nonflammable.	PTA540690	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
1216	5/2/01	5/7/01	Water (?)	Liquid, aqueous	Clear liquid (water?).	NA	Removed and sent to GWTP	NA	NA	Liquid Treated in GWTP; Container Destroyed as Bulk Waste
1276	5/4/01	5/8/01	Solvent	Liquid, flammable, high organic	Orange liquid. Flammable.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed

Table 2
Field Characterization and Disposal Summary
ACS NPL Site
Griffith, Indiana

Drum ID	Sample	HazCat	Waste Type	Waste Category	Observations	Waste	Date Shipped	Manifest #	Truck ID#	Current Status
Number*	Date	Date	, , , , ,			Profile #	for Disposal			
1277	5/4/01	5/8/01	Chlorinated	Liquid, flammable,	Bi-layered liquid. Black	PTA540688	11/5/01	02618877	Oregon Plate	Destroyed
ŀ			Solvent	chlorinated, high organic	bottom, clear top.				HQ 30767	{
		L		<u> </u>	Nonflammable.					L
1278	5/4/01	5/8/01	Solvent & Water	Liquid, flammable, high	Bi-layered liquid. Dark green	PTA540688	11/5/01	02618877	Oregon Plate	Destroyed
i			i	organic	top, light green bottom.				HQ 30767	l
1279	5/4/01	5/8/01	Paraffin	Solid, high organic	Yellow semi-solid -	PTA540690	11/5/01	02618880	Ohio Plate	Destroyed
		L	L		nonflammable.				TIR 8695	
1280	5/4/01	5/8/01	Solvent	Liquid, flammable, high	Clear orange liquid - flammable	PTA540688	11/5/01	02618878	Ohio Plate	Destroyed
				organic	(ketone).				TIR 8696	L
1281	5/4/01	5/8/01	Chlorinated	Liquid, chlorinated, high	Dark liquid-Top/Clear with	PTA540688	11/5/01	02618878	Ohio Plate	Destroyed
			Solvent	organic	suspended phase solids-Bottom				TIR 8696	<u>'</u>
1282	5/4/01	5/8/01	Solvent	Liquid, flammable, high	Black liquid	PTA540688	11/5/01	02618877	Oregon Plate	Destroyed
	5,4,01	5.0.01		organic		PT + 5 + 0 (0 0	11.501	02(10070	HQ 30767	ļ
1283	5/4/01	5/8/01	Solvent	Liquid, flammable, high	Gray watery liquid	PTA540688	11/5/01	02618878	Ohio Plate	Destroyed
	5/4/01	510101	Calman	organic	Brown semi-solid - flammable	PTA540690	11/5/01	02618880	TIR 8696	Destroy d
1380	5/4/01	5/8/01	Solvent	Liquid, flammable,		P1A340690	11/5/01	02618880	Ohio Plate	Destroyed
1201	5/4/01	510101	Paraffin	chlorinated, high organic	& chlorinated.	PTA540690	11/5/01	02618880	TIR 8695	
1381	5/4/01	5/8/01	Parattin	Solid, high organic	Yellow semi-solid -	P1A340090	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1382	5/4/01	5/8/01	Solvent	Liquid, flammable, high	nonflammable. Clear yellow liquid -	PTA540688	11/5/01	02618878	Ohio Plate	Destroyed
1382	3/4/01) 3/8/UI	Solvent	, .	flammable.	P1A340088	11/5/01	02018878	TIR 8696	Destroyed
1383	5/4/01	5/8/01	Daint & Calvant	organic Semi-solid, chlorinated, high		PTA540690	11/5/01	02618880	Ohio Plate	Destroyed
1303	3/4/01	3/8/01	raint & Solvein	l	nonflammable & chlorinated.	F1A340090	11/3/01	02018860	TIR 8695	Desiroyed
1456	5/8/01	5/9/01	Sand	organic Solid	Sand?	PTA540688	11/5/01	02618879	Ohio Plate	Destroyed
1450	3/6/01	3/9/01	Saild	Soilu	Sand:	F1A340000	11/3/01	02016679	PUF 2906	Destroyed
1457	5/8/01	5/9/01	Sand	Solid	Sand?	PTA540690	11/5/01	02618879	Ohio Plate	Destroyed
1437	3/8/01	3/9/01	(3410	30110	Sano:	117.340090	11/3/01	02010079	PUF 2906	Destroyed
1458	5/8/01	5/9/01	Paint Solids	Solid, flammable, high	Sand and paint solvents	PTA540689	11/5/01	02618879	Ohio Plate	Destroyed
1430	3/6/01	317101	rank solids	organic	Sand and pann sorvenis	117340007	11/5/01	02018877	PUF 2906	Desiroyeu
1459	5/8/01	5/9/01	Solvent	Liquid, flammable, high	Black liquid	PTA540688	11/5/01	02618877	Oregon Plate	Destroyed
1437	3/6/01	3/7/01	Solvein	organic	Black Inquite	1175-0000	11/5/01	02018077	HQ 30767	} Destroyed
1460	5/8/01	5/9/01	Paint Solids	Solid, flammable, high	Dried paint solids - flammable.	PTA540689	11/5/01	02618879	Ohio Plate	Destroyed
1400	5/10/01] 3///01	Tank Solids	organic	Direct parite sones - naminable.	1 171340007	1115,01	02010077	PUF 2906	Desiroyea
1461	5/8/01	5/9/01	Solvent	Liquid, flammable, high	Top-Black watery liquid /	PTA540688	11/5/01	02618878	Ohio Plate	Destroyed
1401	5/6/01	,	501.611	organic	Bottom-Black sludge,	1 1115 10000	11,5,01		TIR 8696	Desiroyea
1		{	l	l vigaine	flammable.]				1
1462	5/8/01	5/9/01	Sand	Solid	Sand? Nonflammable.	PTA540690	11/5/01	02618880	Ohio Plate	Destroyed
1702	5,0,0.	3,,,,,,,,,	5	30	1]	11,5,01	1	TIR 8695	250,50
1463	5/8/01	5/9/01	Solvent	Liquid, flammable, high	Milky off-white liquid.	PTA540688	11/5/01	02618878	Ohio Plate	Destroyed
1	2. 3. 0.] //]	organic	, , , , , , , , , , , , , , , , , , , ,]	15.01	020.0070	TIR 8696	

Table 2
Field Characterization and Disposal Summary
ACS NPL Site
Griffith, Indiana

Drum ID	Sample	HazCat	Waste Type	Waste Category	Observations	Waste	Date Shipped	Manifest #	Truck ID#	Current Status
Number*	Date	Date		L	l	Profile #	for Disposal		<u> </u>	
1464	5/8/01	5/9/01	Paraffin	Semi-solid, high organic	Top-Thick brown liquid/Bottom solids (paint chips/debris). Paraffin type - solidifies in air conditioning. Flammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1465	5/8/01	5/9/01	Chlorinated Solvent	Liquid, flammable, chlorinated, high organic	Thin brown liquid	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
1466	5/8/01	5/9/01	Sand	Solid	Sand - nonflammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1467	5/8/01	5/9/01	Sand	Solid	Sand - nonflammable.	PTA540690	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
1468	5/8/01	5/9/01	Solvent	Liquid, flammable, high organic	Watery brown liquid.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
1469	5/8/01	5/9/01	Paraffin	Semi-solid, high organic	Yellow soft solid.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1470	5/8/01	5/9/01	Paraffin	Semi-solid, high organic	Yellow soft solid.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1471	5/8/01	5/9/01	Solvent	Liquid, flammable, high organic	Brown watery liquid.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
1472	5/8/01	5/9/01	Solvent	Liquid, flammable, high organic	Brown rubbery solid - flammable.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
1473	5/8/01	5/9/01	Solvent	Liquid, flammable, high organic	Brown oily liquid - flammable.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
1474	5/8/01	5/9/01	Solvent	Liquid, flammable, high organic	Black watery liquid.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
1475	5/8/01	5/9/01	Solvent	Liquid, flammable, high organic	Black watery liquid.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
1476	5/8/01	5/9/01	Chlorinated Solvent	Liquid, flammable, chlorinated, high organic	Black thin liquid - chlorinated and flammable.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
1477	5/8/01	5/9/01	Oil	Liquid, oil	Thick black liquid - nonflammable.	PTA540688	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
1478	5/8/01	5/9/01	Water (?)	Liquid	Watery liquid with floating sheen - nonflammable.	NA	Removed and sent to GWTP	NA	NA	Liquid Treated in GWTP; Container Destroyed as Bulk Waste
1479	5/8/01	5/9/01	Paint Solids	Semi-solid	Rubbery yellow solid - nonflammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1480	5/8/01	5/9/01	Solvent	Liquid, flammable, high organic	Watery black liquid.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
1481	5/8/01	5/9/01	Solvent	Solid, flammable, high organic	Brown stringy solid	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed

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Field Characterization and Disposal Summary
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Drum ID	Sample	HazCat	Waste Type	Waste Category	Observations	Waste	Date Shipped	Manifest #	Truck ID#	Current Status
Number*	Date	Date	ļ			Profile #	for Disposal			ļ <u>.</u>
1482	5/8/01	5/9/01	Paint Sludge	Semi-solid, high organic	Thick gray sludge - nonflammable.	PTA540690	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
1483	5/8/01	5/9/01	Water (?)	Liquid	Thin brown liquid - nonflammable.	NA	Removed and sent to GWTP	NA	NA	Liquid Treated in GWTP; Container Destroyed as Bulk Waste
1484	5/8/01	5/9/01	Paint Solids	Solid, high organic	Paint solids? Nonflammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1581	5/9/01	5/10/01	Solvent	Liquid, flammable, high organic	Clear yellow liquid - flammable.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
1582	5/9/01	5/10/01	Paraffin / Water	Solid, high organic	Top-brown thin liquid/Bottom- sludge/paraffin. Nonflammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1583	5/9/01	5/10/01	Paint Solids	Solid, flammable, high organic	Paint solids? Flammable.	PTA540689	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
1584	5/9/01	5/10/01	Solvent	Liquid, flammable, high organic	Brown thin liquid.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
1585	5/9/01	5/10/01	Water (?)	Liquid	Cloudy thin liquid. Nonflammable.	NA	Removed and sent to GWTP	NA	NA	Liquid Treated in GWTP; Container Destroyed as Bulk Waste
1586	5/9/01	5/10/01	ink or Dye	Liquid, flammable, high organic	Dark red thin liquid - flammable.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
1587	5/9/01	5/10/01	Solvent	Liquid, flammable, high organic	Orange thin liquid - flammable.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
1588	5/9/01	5/10/01	Water (?)	Liquid	Clear thin liquid - sand on bottom. Nonflammable.	NA	Removed and sent to GWTP	NA	NA	Liquid Treated in GWTP; Container Destroyed as Bulk Waste
1589	5/9/01	5/10/01	Solvent	Liquid, flammable, high organic	Cloudy thin liquid.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
1590	5/9/01	5/10/01	Paint Solids	Solid, chlorinated, flammable, high organic	White paint solids - flammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1591	5/9/01	5/10/01	Solvent	Liquid, flammable, high organic	Green thin liquid.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
1592	5/9/01	5/10/01	Chlorinated Solvent	Liquid, flammable, chlorinated, high organic	Top-cloudy liquid/Bottom-clear liquid. Paint sludge.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
1593	5/9/01	5/10/01	Solvent	Liquid, flammable, high organic	Paint Solvents.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed

Table 2
Field Characterization and Disposal Summary
ACS NPL Site
Griffith, Indiana

Drum ID Number*	Sample Date	HazCat Date	Waste Type	Waste Category	Observations	Waste Profile#	Date Shipped for Disposal	Manifest #	Truck ID#	Current Status
1594	5/9/01	5/10/01	Solvent / Water	Liquid, flammable, high organic	Top-brown thin liquid/Bottom- milky thin liquid.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
1595	5/9/01	5/10/01	Solvent	Liquid, flammable, high organic	Cloudy brown liquid.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
1596	5/9/01	5/10/01	Sand	Solid	Sand - nonflammable.	PTA540688	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
1597	5/9/01	5/10/01	Alcohol	Liquid, flammable, high organic	Red thin liquid.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
1598	5/9/01	5/10/01	Alcohol	Liquid, flammable, high organic	Cloudy red liquid - flammable.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
1599	5/9/01	5/10/01	Paraffin	Solid, high organic	Paraffin - flammable solid.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1692	5/10/01	5/11/01	Water (?)	Liquiđ	Cloudy thin liquid.	NA	Removed and sent to GWTP	NA	NA	Liquid Treated in GWTP; Container Destroyed as Bulk Waste
1693	5/10/01	5/11/01	Ink or Dye	Liquid, flammable, high organic	Thin dark blue liquid (ink or dye?) - flammable.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
1694	5/10/01	5/11/01	Chlorinated Solvent	Liquid, flammable, chlorinated, high organic	Top-thick brown liquid/Bottom- white sludge - flammable.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
1695	5/10/01	5/11/01	Water (?)	Liquid	Clear thin liquid - nonflammable.	NA	Removed and sent to GWTP	NA	NA	Liquid Treated in GWTP: Container Destroyed as Bulk Waste
1696	5/10/01	5/11/01	Chlorinated Paint	Solid, chlorinated, flammable, high organic	White paint solids - flammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1697	5/10/01	\$/11/01	Chlorinated Solvent	Liquid, flammable, chlorinated, high organic	Top-milky white/Bottom-white paint solids - flammable.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
1698	5/10/01	5/11/01	Chlorinated Solvent / Paint	Liquid, flammable, chlorinated, high organic	Top-thin brown liquid/Bottom- white paint sludge - flammable.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
1699	5/10/01	5/11/01	Chlorinated Solvent	Liquid, flammable, chlorinated, high organic	Top-light brown cloudy/Bottom- light brown clear - flammable.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
1700	5/10/01	5/11/01	Paint Solids	Solid, flammable, high organic	Top-brown liquid/Bottom-white paint sludge - flammable.	PTA540689	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
1701	5/10/01	\$/11/01	Paraffin	Solid, high organic	Pale yellow crystal - flammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed

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Field Characterization and Disposal Summary
ACS NPL Site
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Drum ID	Sample	HazCat	Waste Type	Waste Category	Observations	Waste	Date Shipped	Manifest #	Truck ID#	Current Status
Number*	Date	Date				Profile #	for Disposal		l	l
1702	5/10/01	5/11/01	Paraffin	Solid, high organic	White crystals - flammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1703	5/10/01	5/11/01	Paraffin	Solid, high organic	White crystals.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1704	5/10/01	5/11/01	Paraffin	Solid, high organic	White crystals.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1705	5/10/01	5/11/01	Solvent	Liquid, flammable, high organic	Top-cloudy brown/Bottom- Clear liquid - flammable.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
1706	5/10/01	5/11/01	Paint Solids	Solid, high organic	Top-water/Bottom-paint - nonflammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1707	5/10/01	5/11/01	Unknown Solid	Solid, high organic	Brown grainy solid - nonflammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1708	5/10/01	5/11/01	Unknown Liquid	Liquid, high organic	Thick gray liquid - nonflammable.	PTA540688	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
1709	5/10/01	5/11/01	Paint Solids	Solid, high organic	Gray solid - nonflammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1710	5/10/01	5/11/01	Paint Solids	Solid, chlorinated, flammable, high organic	White paint solid - flammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1711	5/10/01	5/11/01	Sand	Solid	Sand? Nonflammable.	PTA540690	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
1712	5/10/01	5/11/01	Solvent	Liquid, flammable, high organic	Clear brown liquid - flammable.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
1713	5/10/01	5/14/01	Chlorinated Solvent / Paint	Semi-solid, chlorinated, flammable, high organic	Brown paint sludge - flammable and chlorinated.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1714	5/10/01	5/14/01	Chlorinated Solvent / Paint	Semi-solid, chlorinated, flammable, high organic	Brown paint sludge - flammable and chlorinated.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1715	5/10/01	5/14/01	Paint Sludge	Semi-solid, flammable, high organic	Yellow paint sludge - flammable.	PTA540689	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
1716	5/10/01	5/14/01	Paraffin	Solid, high organic	Solid, dark yellow paraffin - flammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1717	5/10/01	5/14/01	Ink or Dye	Liquid, flammable, high organic	Purple dye - flammable.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
1718	5/10/01	5/14/01	Ink or Dye	Semi-solid, flammable, high organic	Semi-solid yellow dye - flammable.	PTA540689	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
1719	5/10/01	5/14/01	Water (?)	Liquid	Clear yellow liquid - nonflammable.	NA	Removed and sent to GWTP	NA	NA	Liquid Treated in GWTP; Container Destroyed as Bulk Waste
1720	5/10/01	5/14/01	Solvent	Liquid, flammable, high organic	Black liquid - flammable.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
1721	5/10/01	5/14/01	Paint Solids	Solid, high organic	Solid, white and blue paint solvent - nonflammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed

Table 2 Field Characterization and Disposal Summary ACS NPL Site Griffith, Indiana

Drum ID	Sample	HazCat	Waste Type	Waste Category	Observations	Waste	Date Shipped	Manifest #	Truck ID#	Current Status
Number*	Date	Date	, , , .	1	1	Profile #	for Disposal			Current Status
1866	5/11/01	5/14/01	Paint Solids	Solid, high organic	Brown rubbery solid - nonflammable.	PTA540690	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
1867	5/11/01	5/14/01	Paint Solids	Solid, flammable, high organic	Paint sludge - flammable.	PTA540689	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
1868	5/11/01	5/14/01	Water (?)	Liquid	Brown watery liquid - nonflammable.	NA	Removed and sent to GWTP	NA	NA	Liquid Treated in GWTP; Container Destroyed as Bulk Waste
1869	5/11/01	5/14/01	Water (?)	Liquid	Clear watery liquid - nonflammable.	NA	Removed and sent to GWTP	NA	NA	Liquid Treated in GWTP; Container Destroyed as Bulk Waste
1870	5/11/01	5/14/01	Resin	Solid, high organic	Yellow solid (resin) - nonflammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1871	5/11/01	5/14/01	Resin	Solid, high organic	Black oily looking solid (resin) - nonflammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
1872	5/11/01	5/14/01	Solvent	Solid, high organic	Thick brown liquid - flammable.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
1873	5/11/01	5/14/01	Liquid	Liquid, high organic	Black solid - nonflammable.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
1874	5/11/01	5/14/01	Resin	Solid, high organic	Clear waxy solid and sand - nonflammable.	PTA540690	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
2160	5/18/01	5/21/01	Paint Solids	Semi-solid, flammable, high organic	Thick white paint sludge - flammable.	PTA540689	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
2161	5/18/01	5/21/01	Paint	Liquid, flammable, high organic	Viscous white liquid (paint- like) - flammable.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
2162	5/18/01	5/21/01	Paint	Liquid, flammable, high organic	Green liquid, moderately viscous - flammable.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
2163	5/18/01	5/21/01	Paint Solids	Semi-solid, chlorinated, flammable, high organic	Red paint sludge - flammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
2164	5/18/01	5/21/01	Solvent	Semi-solid, chlorinated, flammable, high organic	Top-blue/green liquid - chlorinated & flammable. Bottom-brown solid (mixture of sand, water and product) - flammable/chlorinated.	PTA540689	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
2165	5/18/01	5/21/01	Solvent	Semi-solid, chlorinated, flammable, high organic	Top-cloudy brown liquid/Bottom-sand?	PTA540689	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
2166	5/18/01	5/22/01	Chlorinated Solvent	Liquid, chlorinated, high organic, flammable	Cloudy brown liquid - nonflammable.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
2167	5/18/01	5/22/01	Paint	Liquid, flammable, high organic	Viscous green liquid - flammable.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed

Drum ID	Sample	HazCat	Waste Type	Waste Category	Observations	Waste	Date Shipped	Manifest #	Truck ID#	Current Status
Number*	Date	Date	••	1	1	Profile #	for Disposal		ļ	
2168	5/18/01	5/22/01	Chlorinated Solvent	Liquid, chlorinated, flammable, high organic	Cloudy brown liquid - flammable.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
2169	5/18/01	5/22/01	Paint Solids	Liquid, flammable, high organic	White paint solid - flammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
2170	5/18/01	5/22/01	Paint Solids	Solid, flammable, high organic	White solid and sand - flammable.	PTA540689	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
2171	5/18/01	5/22/01	Sand	Solid	Sand - nonflammable.	PTA540690	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
2240	5/18/01	5/22/01	Ink or Dye	Liquid, chlorinated, flammable, high organic	Thin red liquid - flammable.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
2241	5/18/01	5/22/01	Paint Solids	Semi-solid, flammable, high organic	Thick cream color sludge (paint) - flammable.	PTA540689	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
2242	5/18/01	5/22/01	Paraffin	Semi-solid, paraffin, chlorinated	Brown pasty solid - chlorinated paraffin?	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
2243	5/18/01	5/22/01	Paint Solids	Solid, chlorinated, flammable, high organic	Brown rubbery solid and sand - flammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
2244	5/18/01	5/22/01	Paint Solids	Solid, flammable, high organic	White paint semi-solid - flammable.	PTA540689	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
2245	5/18/01	5/22/01	Sand & Paint Solids	Solid, chlorinated, high organic	Sand? With small amount of paint solids - nonflammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
2246	5/18/01	5/22/01	ink or Dye	Liquid, chlorinated, flammable, high organic	Thin red liquid - flammable & chlorinated.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
2247	5/18/01	5/22/01	Chlorinated Solvent	Liquid, chlorinated, flammable, high organic	Top-blue liquid / Bottom-clear liquid - flammable & chlorinated.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
2248	5/18/01	5/22/01	Water (?)	Liquid	Clear liquid with floating sheen nonflammable.	NA	Removed and sent to GWTP	NA	NA	Liquid Treated in GWTP; Container Destroyed as Bulk Waste
2249	5/18/01	5/22/01	Chlorinated Solvent	Liquid, chlorinated, flammable, high organic	Viscous yellow liquid - flammable & chlorinated.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
2250	5/18/01	5/22/01	Paint Solids	Solid, chlorinated, flammable, high organic	Purple solid and sand - flammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
2251	5/18/01	5/22/01	Paraffin	Semi-solid, paraffin, chlorinated	Dark brown semi-solid - nonflammable, chlorinated paraffin.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
2252	5/18/01	5/22/01	Chlorinated Solvent / Oil	Semi-solid, chlorinated, high organic		PTA540688	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
2253	5/18/01	5/22/01	Solvent	Liquid, flammable, high organic	Clear yellow liquid with floating sheen - flammable.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
2254	5/18/01	5/22/01	Chlorinated Solvent	Liquid, chlorinated, flammable, high organic	Clear orange liquid - flammable & chlorinated.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed

Table 2
Field Characterization and Disposal Summary
ACS NPL Site
Griffith, Indiana

Drum ID	Sample	HazCat	Waste Type	Waste Category	Observations	Waste	Date Shipped	Manifest #	Truck ID#	Current Status
Number*	_ Date	_ Date		1		Profile #	for Disposal			
2255	5/18/01	5/22/01	Chlorinated	Liquid, chlorinated,	Cloudy red liquid - flammable	PTA540688	11/5/01	02618878	Ohio Plate	Destroyed
			Solvent	flammable, high organic	& chlorinated.				TIR 8696	1
2256	5/18/01	5/23/01	Solvent	Liquid, flammable, high	Clear yellow liquid, viscous -	PTA540688	11/5/01	02618877	Oregon Plate	Destroyed
				organic	flammable.			_	HQ 30767	•
2257	5/18/01	5/23/01	Sand	Solid	Dark brown solid - sand?	PTA540690	11/5/01	02618880	Ohio Plate	Destroyed
					Nonflammable.				TIR 8695	<u> </u>
2258	5/18/01	5/23/01	Sand & Paint	Solid, chlorinated, high	Sand with solid black residue -	PTA540690	11/5/01	02618880	Ohio Plate	Destroyed
		1	Solids	organic	residue analyzed - chlorinated.		ı		TIR 8695	l
2259	5/18/01	5/23/01	Ink or Dye	Liquid, chlorinated,	Dode to ship hi i'd	DT 4 540(00)	11/5/01	02410020		
2239	3/16/01	3/23/01	ink of Dye	flammable, high organic	Dark purple thin liquid - flammable & chlorinated.	PTA540688	11/5/01	02618878	Ohio Plate	Destroyed
2260	5/18/01	5/23/01	Water (?)	Liquid	Clear liquid with floating	NA NA	Removed and	NA	TIR 8696	
2200	3/16/01	3/23/01	Water (1)	Liquid	residue - nonflammable.	NA		NA.	NA	Liquid Treated
		[[residue - nonnammable.		sent to GWTP		1	in GWTP;
				1	j				ļ	Container
				l	1				i	Destroyed as Bulk Waste
2261	5/18/01	5/23/01	Chlorinated	Liquid, chlorinated,	Brown cloudy liquid -	PTA540688	11/5/01	02618878	Ohio Plate	Destroyed
		}	Solvent	flammable, high organic	flammable & chlorinated.	1 1,12 ,0000	11/3/01	020,00,0	TIR 8696	Destroyed
2262	5/18/01	5/23/01	Sand	Solid	Sand - nonflammable.	PTA540690	11/5/01	02618880	Ohio Plate	Destroyed
				1				02010000	TIR 8695	20311070
2263	5/18/01	5/23/01	Paint Solids	Semi-solid, flammable, high	White paint sludge - flammable.	PTA540689	11/5/01	02618879	Ohio Plate	Destroyed
	j	}		organic	}				PUF 2906	
2359	5/21/01	5/23/01	Solvent	Liquid, flammable, high	Cloudy yellow liquid -	PTA540688	11/5/01	02618877	Oregon Plate	Destroyed
		[organic	flammable.		'		HQ 30767	,
2360	5/21/01	5/23/01	Paint Solids	Semi-solid, flammable, high	Brown paint solids - flammable.	PTA540689	11/5/01	02618879	Ohio Plate	Destroyed
				organic					PUF 2906]
2361	5/21/01	5/23/01	Solvent	Liquid, flammable, high	Clear viscous liquid -	PTA540688	11/5/01	02618878	Ohio Plate	Destroyed
				organic	flammable.				TIR 8696	1_
2362	5/21/01	5/23/01	Solvent	Liquid, flammable, high	Black liquid - flammable.	PTA540688	11/5/01	02618877	Oregon Plate	Destroyed
				organic					HQ 30767	
2363	5/21/01	5/23/01	Water (?)	Liquid	Cloudy light brown liquid	NA	Removed and	NA	NA	Liquid Treated
ľ		[ľ	(water?) - nonflammable.		sent to GWTP	1	}	in GWTP;
	•	1 1		Í	}				ì	Container
]		1	1				1	Destroyed as
	- 12 × ×= 1			 					ļ	Bulk Waste
2364	5/21/01	5/23/01	Solvent	Liquid, flammable, high	Cloudy liquid - flammable.	PTA540688	11/5/01	02618877	Oregon Plate	Destroyed
	# 10 · · · · ·			organic	<u> </u>			<u> </u>	HQ 30767	
2365	5/21/01	5/23/01	Solvent	Liquid, flammable, high	Cloudy yellow liquid -	PTA540688	11/5/01	02618878	Ohio Plate	Destroyed
40.66	F (2) (2)	4.00		organic	flammable.				TIR 8696	ļ
2366	5/21/01	5/23/01	Solvent	Liquid, flammable, high	Clear liquid - flammable.	PTA540688	11/5/01	02618878	Ohio Plate	Destroyed
L	L	L		organic	L				TIR 8696	1

Table 2
Field Characterization and Disposal Summary
ACS NPL Site
Griffith, Indiana

Drum ID	Sample	HazCat	Waste Type	Waste Category	Observations	Waste	Date Shipped	Manifest #	Truck ID#	Current Status
Number*	Date	Date				Profile #	for Disposal			
2367	5/21/01	5/23/01	Chlorinated	Liquid, chlorinated,	Top-dark brown liquid / Bottom	PTA540688	11/5/01	02618878	Ohio Plate	Destroyed
]	Solvent	flammable, high organic	very dark brown liquid -				TIR 8696	
					flammable.	<u> </u>				
2368	5/21/01	5/23/01	Solvent	Liquid, flammable, high	Clear viscous liquid -	PTA540688	11/5/01	02618877	Oregon Plate	Destroyed
				organic	flammable.				HQ 30767	
2369	5/21/01	5/24/01	Solvent	Liquid, flammable, high	Clear viscous liquid -	PTA540688	11/5/01	02618877	Oregon Plate	Destroyed
				organic	flammable.				HQ 30767	
2370	5/21/01	5/24/01	Water (?)	Liquid	Cloudy yellow liquid (water?) -	NA	Removed and	NA	NA	Liquid Treated
				i	nonflammable.		sent to GWTP			in GWTP;
1		}	l ,		ļ				1	Container
i .					<u> </u>				ĺ	Destroyed as
		L							L	Bulk Waste
2371	5/21/01	5/24/01	Solvent	Liquid, flammable, high	Cloudy brown liquid -	PTA540688	11/5/01	02618878	Ohio Plate	Destroyed
		L		organic	flammable.				TIR 8696	
2372	5/21/01	5/24/01	Solvent	Liquid, flammable, high	Cloudy brown liquid -	PTA540688	11/5/01	02618878	Ohio Plate	Destroyed
				organic	flammable.				TIR 8696	
2373	5/21/01	5/24/01	Solvent	Liquid, flammable, high	Cloudy green liquid -	PTA540688	11/5/01	02618878	Ohio Plate	Destroyed
		<u></u>		organic	flammable.				TIR 8696	
2374	5/21/01	5/24/01	Sand	Solid	Black semi-solid (sand &	PTA540690	11/5/01	02618880	Ohio Plate	Destroyed
_					water?) - nonflammable.				TIR 8695	<u> </u>
2375	5/21/01	5/24/01	Water (?)	Liquid, low organic	Cloudy liquid with oily sheen	NA	Removed and	NA	NA	Liquid Treated
i		()		ı	(water with low level solvent?) -		sent to GWTP		ļ	in GWTP;
		1			nonflammable, low organic.					Container
		1 1			1					Destroyed as
	_				<u> </u>				ļ	Bulk Waste
2376	5/21/01	5/24/01	Solvent	Liquid, flammable, high	Cloudy brown liquid -	PTA540688	11/5/01	02618877	Oregon Plate	Destroyed
		l l		organic	flammable.				HQ 30767	L
2377	5/21/01	5/24/01	Chlorinated	Liquid, chlorinated,	Bright blue paint - flammable &	PTA540688	11/5/01	02618877	Oregon Plate	Destroyed
		}	Solvent	flammable, high organic	chlorinated.				HQ 30767	
2378	5/21/01	5/24/01	Solvent	Liquid, flammable, high	Clear liquid - flammable.	PTA540688	11/5/01	02618878	Ohio Plate	Destroyed
	_			organic					TIR 8696	
2379	5/21/01	5/24/01	Solvent	Liquid, flammable, high	Clear viscous liquid -	PTA540688	11/5/01	02618877	Oregon Plate	Destroyed
		{ }		organic	flammable.		•		HQ 30767	}
2380	5/21/01	5/24/01	Chlorinated	Liquid, chlorinated,	Top-light brown paint/Bottom-	PTA540688	11/5/01	02618878	Ohio Plate	Destroyed
		}	Solvent	flammable	clear liquid (water?) -				TIR 8696	
					flammable & chlorinated.				ì	ì
2381	5/21/01	5/24/01	Solvent	Liquid, flammable, high	Clear yellow liquid -	PTA540688	11/5/01	02618877	Oregon Plate	Destroyed
]]		organic	flammable.				HQ 30767	1
2382	5/21/01	5/24/01	Paint	Liquid, flammable,	Light green paint - flammable	PTA540688	11/5/01	02618878	Ohio Plate	Destroyed
		\		chlorinated, high organic	& chlorinated.				TIR 8696	[
2383	5/22/01	5/24/01	Paint	Liquid, flammable,	Cloudy green liquid -	PTA540688	11/5/01	02618878	Ohio Plate	Destroyed
	ľ	1		chlorinated, high organic	flammable & chlorinated.				TIR 8696	1 '

Drum ID	Sample	HazCat	Waste Type	Waste Category	Observations	Waste	Date Shipped	Manifest #	Truck ID#	Current Status
Number*	Date	Date]	waste category	(7BSCI VIIIONS	Profile #	for Disposal	Maintest #	IIIICK ID#	Current Status
2384	5/22/01	5/24/01	Solvent	Liquid, flammable, high organic	Brown paint - flammable.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
2385	5/22/01	5/29/01	Paint	Liquid, flammable, chlorinated, high organic	Cloudy brown liquid - flammable & chlorinated	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
2386	5/22/01	5/29/01	Paint Solids	Solid, flammable, chlorinated, high organic	Purple paint solids - flammable & chlorinated.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
2387	5/22/01	5/29/01	Solvent	Liquid, flammable, high organic	White paint - flammable.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
2388	5/22/01	5/29/01	Solvent	Liquid, flammable, high organic	Viscous clear liquid/gel - flammable.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
2389	5/22/01	5/29/01	Solvent	Liquid, flammable, high organic	Cloudy white liquid - flammable.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
2390	5/22/01	5/29/01	Solvent	Liquid, flammable, high organic	Viscous white paint - flammable.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
2391	5/22/01	5/29/01	Paint Solids	Solid, flammable, high organic	Clear gel - flammable.	PTA540689	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
2392	5/22/01	5/29/01	Sand & Paint Solids	Solid, chlorinated, high organic	Sand and paint solids - chlorinated.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
2393	5/22/01	5/29/01	Solvent	Liquid, flammable, high organic	Black liquid - flammable.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
2394	5/22/01	5/29/01	Sand & Paint Solids	Solid, chlorinated, high organic	Sand and paint solids - chlorinated.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
2395	5/22/01	5/29/01	Solvent	Liquid, flammable, high organic	Cloudy brown liquid - flammable.	PTA540688	11/5/01	02618878	Ohio Plate TTR 8696	Destroyed
2396	5/22/01	5/29/01	Paint Solids	Solid, flammable, high organic	Top-cloudy brown liquid/Bottom-purple sludge - flammable.	PTA540689	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
2397	5/22/01	5/29/01	Solvent	Liquid, flammable, high organic	Cloudy brown liquid - flammable.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
2398	5/22/01	5/29/01	Solvent	Liquid, chlorinated	Cloudy brown liquid - mildly chlorinated.	NA	Removed and sent to GWTP	NA	NA	Liquid Treated in GWTP; Container Destroyed as Bulk Waste
2399	5/22/01	5/29/01	Unknown Liquid	Liquid, non-flammable, organic	Black liquid - nonflammable.	PTA540688	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
2400	5/22/01	5/29/01	Solvent	Liquid, flammable, high organic	Dark yellow viscous liquid - flammable.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
2501	5/22/01	5/29/01	Solvent	Liquid, chlorinated	Cloudy brown liquid - mildly chlorinated.	NA	Removed and sent to GWTP	NA	NA	Liquid Treated in GWTP; Container Destroyed as Bulk Waste

Table 2
Field Characterization and Disposal Summary
ACS NPL Site
Griffith, Indiana

Drum ID	Sample	HazCat	Waste Type	Waste Category	Observations	Waste	Date Shipped	Manifest #	Truck ID#	Current Status
Number*	Date	Date]		Profile #	for Disposal			
2502	5/22/01	5/29/01	Unknown Liquid	Liquid, non-flammable, organic	Black liquid - nonflammable.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
2503	5/22/01	5/29/01	Solvent	Liquid, chlorinated	Cloudy yellow liquid - mildly chlorinated.	NA	Removed and sent to GWTP	NA	NA	Liquid Treated in GWTP; Container Destroyed as Bulk Waste
2504	5/22/01	5/29/01	Paint Solids	Semi-liquid, flammable, high organic	Clear gel - flammable.	PTA540689	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
2505	5/22/01	5/29/01	Chlorinated Paraffin	Solid, flammable, chlorinated, high organic	Black semi-solid - chlorinated paraffin.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
2506	5/23/01	5/29/01	Sand	Non-flammable	Sand	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
2507	5/23/01	5/29/01	Chlorinated Paint	Semi-solid, chlorinated, flammable, organic	Top-cloudy brown liquid/Bottom-white paint sludge - chlorinated & flammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
2508	5/23/01	5/29/01	Paint	Liquid, chlorinated, flammable, organic	Top-brown liquid/Bottom - chlorinated & flammable.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
2509	5/23/01	5/29/01	Chlorinated Solvent	Liquid, chlorinated, flammable, organic	Cloudy gray liquid - chlorinated & flammable.	[[11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
2510	5/23/01	5/29/01	Chlorinated Paint Solids	Solid, chlorinated, flammable, high organic	White paint solids - chlorinated & flammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
2511	5/23/01	5/30/01	Chlorinated Solvent	Liquid, chlorinated, non- flammable	Clear liquid - nonflammable & mildly chlorinated.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
2512	5/23/01	5/30/01	Chlorinated Paint Solids	Solid, chlorinated, flammable, high organic	Paint solids - flammable & mildly chlorinated.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
2513	5/23/01	5/30/01	Solvent	Liquid, flammable, high organic	Thick purple liquid - flammable.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
2514	5/23/01	5/30/01	Chlorinated Solvent	Liquid, chlorinated, flammable, high organic	Clear yellow liquid - flammable & mildly chlorinated.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
2515	5/23/01	5/30/01	Chlorinated Solvent	Liquid, chlorinated, flammable, high organic	Cloudy brown liquid with sheen - flammable & chlorinated.	PTA\$40688	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
2516	5/23/01	5/30/01	Chlorinated Solvent	Liquid, chlorinated, flammable, high organic	Brown solid - flammable & chlorinated.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
2517	5/23/01	5/30/01	Chlorinated Solvent	Liquid, chlorinated, flammable, high organic	Top-clear/Bottom-pink - flammable & chlorinated.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
2518	5/23/01	5/30/01	Chlorinated Solvent	Liquid, chlorinated, flammable, high organic	Top-pink/Bottom-clear - flammable & chlorinated	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
2519	5/23/01	5/30/01	Chlorinated Solvent	Liquid, chlorinated, flammable, high organic	Orange liquid - flammable & chlorinated.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed

Drum ID	Sample	HazCat	Waste Type	Waste Category	Observations	Waste	Date Shipped	Manifest #	Truck ID#	Current Status
Number*	Date	Date		<u> </u>		Profile #	for Disposal			
2520	5/23/01	5/30/01	Water ('')	Liquid, chlorinated, low organic	Cloudy yellow liquid - nonflammable & chlorinated.	NA	Removed and sent to GWTP	NA	NA	Liquid Treated in GWTP; Container Destroyed as
2521	5/23/01	5/30/01	Oil	Liquid, high organic	Thick black liquid - nonflammable.	PTA540688	11/5/01	02618879	Ohio Plate PUF 2906	Bulk Waste Destroyed
2610	5/23/01	5/30/01	Paint Solids	Semi-solid, flammable, high organic	Thick brown sludge/paint solids - flammable.	PTA540689	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
2611	5/23/01	5/30/01	Paint (Latex?)	Liquid, high organic	Thick blue liquid - nonflammable.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
2612	5/23/01	5/30/01	Water (?)	Liquid, low organic	Cloudy brown liquid - chlorinated.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
2613	5/23/01	5/30/01	Paint (Latex?)	Liquid, high organic	Blue liquid with sludge on bottom - nonflammable.	PTA540690	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
2614	5/23/01	5/30/01	Oil	Liquid, high organic	Black liquid - nonflammable.	PTA540688	11/5/01	02618879	Ohio Plate PUF 2906	Destroyed
2615	5/23/01	5/30/01	Paint Solids	Solid, chlorinated, flammable, high organic	White chalky solid - flammable & chlorinated.	PTA540690	11/5/01	02618880	Ohio Plate TIR 8695	Destroyed
2616	5/23/01	5/30/01	Chlorinated Solvent_	Liquid, chlorinated, flammable, high organic	Cloudy blue liquid - flammable & chlorinated.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed
2617	5/23/01	5/30/01	Water (?)	Liquid, chlorinated, low organic	Cloudy brown liquid - nonflammable & chlorinated.	NA	Removed and sent to GWTP	NA	NA	Liquid Treated in GWTP; Container Destroyed as Bulk Waste
2618	5/23/01	5/30/01	Water (?)	Liquid, chlorinated, low organic	Cloudy brown liquid - chlorinated & nonflammable.	NA	Removed and sent to GWTP	NA	NA	Liquid Treated in GWTP; Container Destroyed as Bulk Waste
2619	5/23/01	5/30/01	Chlorinated Solvent	Liquid, chlorinated, flammable, high organic	Top-cloudy brown liquid - flammable & chlorinated.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
2620	5/23/01	5/30/01	Water (?)	Liquid, chlorinated, low organic	Cloudy brown liquid - nonflammable & chlorinated.	PTA540688	11/5/01	02618877	Oregon Plate HQ 30767	Destroyed
2621	5/23/01	5/30/01	Water (?)	Liquid, chlorinated, low organic	Cloudy brown liquid - nonflammable & chlorinated.	NA	Removed and sent to GWTP	NA	NA	Liquid Treated in GWTP; Container Destroyed as Bulk Waste
2622	5/23/01	5/30/01	Chlorinated Solvent	Liquid, chlorinated, flammable, high organic	Cloudy brown liquid - flammable & chlorinated.	PTA540688	11/5/01	02618878	Ohio Plate TIR 8696	Destroyed

Drum ID	Sample	HazCat	Waste Type	Waste Category	Observations	Waste	Date Shipped	Manifest #	Truck ID#	Current Status
Number*	Date	Date		L		Profile #	for Disposal		L	
2623	6/6/01	6/21/01	Solid	Solid, mildly chlorinated	Wet Sand, Water, and Rocks	PTA540690	11/16/01	02618884	Onyx Straight Truck	Destroyed
2624	6/6/01	6/21/01	Solid	Dry Sand and Rocks	Dry Sand and Rocks	PTA540691	Drum containing soil - sent for bulk roll-off box disposal	NA	NA	Destroyed as Bulk Waste
2625	6/6/01	6/21/01	Solid	Wet Soil	Wet Soil	PTA540691	Drum containing soil - sent for bulk roll-off box disposal	NA	NA	Destroyed as Bulk Waste
2626	6/6/01	6/21/01	Water	Liquid	Water	NA	Removed and sent to GWTP	NA	NA	Liquid Treated in GWTP; Container Destroyed as Bulk Waste
2627	6/6/01	6/21/01	Water	Liquid	Water	NA	Removed and sent to GWTP	NA	NA	Liquid Treated in GWTP; Container Destroyed as Bulk Waste
2628	6/6/01	6/21/01	Solid	Wet Sand and Rocks	Wet Sand and Rocks	PTA540691	Drum containing soil - sent for bulk roll-off box disposal	NA	NA	Destroyed as Bulk Waste
2629	6/6/01	6/21/01	Solid	Sand	Sand	PTA540691	Drum containing soil - sent for bulk roll-off box disposal	NA	NA	Destroyed as Bulk Waste
2630	6/6/01	6/21/01	Solid	Paint Solids and Sand	Paint Solids and Sand	PTA540690	11/16/01	02618884	Onyx Straight Truck	Destroyed
2631	6/6/01	6/21/01	Solid	Paint Solids and Sand (Chlorinated)	Paint Solids and Sand (Chlorinated)	PTA540690	11/16/01	02618884	Onyx Straight Truck	Destroyed
2632	6/6/01	6/21/01	Water	Liquid	Water	NA	Removed and sent to GWTP	NA	NA	Liquid Treated in GWTP; Container Destroyed as Bulk Waste

Drum ID	Sample	HazCat	Waste Type	Waste Category	Observations	Waste	Date Shipped	Manifest #	Truck ID#	Current Status
Number*	Date	Date_		<u> </u>		Profile #	for Disposal		{	ł ł
2633	6/6/01	6/21/01	Water	Liquid	Water	NA	Removed and	NA	NA	Liquid Treated
}		1		1			sent to GWTP			in GWTP;
l i		1 1		1		ļ				Container
	İ									Destroyed as
						 		l		Bulk Waste
2634	6/6/01	6/21/01	Liquid	Mildly Caustic Liquid	Mild Caustic	PTA540688	11/16/01	02618884	Onyx Straight	Destroyed
2635	6/6/01	6/21/01	Water	Liquid	Water	NA NA	Removed and	NA NA	Truck NA	11222
2033	0/0/01	0/21/01	Water	Isiquiu	Water	NA .	sent to GWTP	I NA	NA NA	Liquid Treated
ł		! !		1			Sent to Gw 11			in GWTP;
1 1				j						Container Destroyed as
								<u>. </u>	{	Bulk Waste
2636	6/6/01	6/21/01	Water	Liquid	Water	NA	Removed and	NA	NA	Liquid Treated
j j)]]			sent to GWTP			in GWTP;
1		1		î i		}	,]	Container
, j		!		,		1				Destroyed as
2637	6/6/01	6/21/01			<u> </u>	ļ	- <u>-</u>	<u> </u>	<u> </u>	Bulk Waste
203/	0/0/01	0/21/01	Water	Liquid	Water	NA	Removed and	NA	NA	Liquid Treated
1		}		{		l	sent to GWTP	}	}	in GWTP:
]		,		ļ						Container
1		l i		Ì				}		Destroyed as
2638	6/6/01	6/21/01	Water	Liquid	Water with oily sheen on top	NA	Removed and	NA NA	NA	Bulk Waste Liquid Treated
20.70	0,0,0,	0,21,01	vi acci	Elquid	water with only sheen on top	117	sent to GWTP	100	1 100	in GWTP;
i i	1	l 1		}		}	Schi to G 11 11			Container
i i				1						Destroyed as
i i		1 1		}		}			ì	Bulk Waste
2639	6/6/01	6/21/01	Solid	Brown rubbery solid, paint	Brown rubbery solid, paint	PTA540690	11/16/01	02618884	Onyx Straight	Destroyed
Ĺ				solids	solids	<u>. </u>	L		Truck	
2640	6/6/01	6/21/01	Water	Liquid	Water	NA	Removed and	NA	NA	Liquid Treated
i 1		[i i]	sent to GWTP			in GWTP;
1	ł]		1		1		1		Container
		i '		{		ł]	Destroyed as
ļ	L					ļ			ļ	Bulk Waste
2641	6/6/01	6/21/01	Water	Liquid	Water	NA	Removed and	NA	NA	Liquid Treated
1 1]					sent to GWTP			in GWTP;
\]		1		ł	!]	Container
	}]							}	Destroyed as
				<u></u>	l	<u> </u>	L		l	Bulk Waste

Drum ID	Sample	HazCat	Waste Type	Waste Category	Observations	Waste	Date Shipped	Manifest #	Truck ID #	Current Status
Number*	Date	Date	" " "	•		Profile #	for Disposal			
2642	6/6/01	6/21/01	Water	Liquid	Water	NA	Removed and sent to GWTP	NA	NA	Liquid Treated in GWTP; Container
ł i						1		,		Destroyed as
1										Bulk Waste

Notes:

NA = Not applicable

Information contained in this table is from the database generated by Koester Environmental Services and field notes collected by MWH Drums 2623 through 2642 were not excavated as part of the drum removal and were generated as part of previous site activities.

* Drum ID numbers not included in this table (example: drums 1100 to 1203) represent non-intact drums which were not sampled or characterized.

Table 3 Drum ID Numbers in Waste Stream Profile #540688 Drum Removal ACS NPL Site Griffith, Indiana

Waste Stream Profile #540688
Description: Flammable, chlorinated, and non-flammable organic liquids.

LAN	MAE				1-1-2		т	Pai		1."		A1	Te	Oil				D.	- 661 -	Calarant	1 4
		Solven	<u> </u>	6.114	Ink/I		1 1 2 2 2 3	Par			esive					rgani			affin	Solvent/Paint	
1000	Lig		13513	Solia	Liquid	Solia			Solid		quid	Liquid	Sond	Liquia	Tridnia	- 30	bik	1 20	lid	Solid	Liquid
1009			2513	 -	1003	L	1004		├		005	1597	├ ──	↓	-	├	<u> </u>	├ —-	-		.
1088		2366		-	1586	!	1010		⊢ —	19)96	1598	.	ļ	.	<u> </u>	<u> </u>	!	L		L
1207		2368		L	1693	$ldsymbol{ldsymbol{ldsymbol{eta}}}$	2161		<u> </u>				<u> </u>	ļ	ļ	 	<u> </u>	↓			
1210		2369	¥	ļ	1717	L	2162		<u> </u>			L	<u> </u>	<u> </u>	<u> </u>	L	<u> </u>	L_	<u> </u>	L	ļ
	1587		<u> </u>	L		l	2167			LL_			ļ	L	L	L	l	<u> </u>		[L
1213		2372				L				l_		<u></u>			 	L	<u> </u>	L			
1276		2373				Ĺ						Ĺ <u> </u>		L	Ĺ						l
1278		2376																			
1280	1594	2378																			
1282	1595	2379										1	i								
1283	1705	2381															 	1]
1382	1712	2384											T					1			
	1720																				
1463	1872	2388	 													\vdash	1	1			
	2253					 						<u> </u>		 		<u> </u>		 	_		
	2256						 								 						
	2359						-					 -						┼~			
	2361						├ ┈─┤		 					 -				 			
	2362			├														├			
	2364			<u> </u>								 -	 	 			<u> </u>	├	├		
					L				نــــــــــــــــــــــــــــــــــــــ			L	Ь	L		Ц	<u> </u>	<u> </u>			Ĺ
CHL	RINA								-				<u> </u>	1 - A				T ==		[C.1	
		olven	<u> </u>	G 11 1	Ink/I			Pai				Alcohol Liquid	Sana	Oil	7	ganie		Par		Solvent/Paint Solid	
1007	Liq 1592		12516	20110	Liquid 2240	Solia			Solid	L	ruid_	ridaia	Soila	Liquia	Liquia	- 30	lid	30	lid	Solid	Liquid
							2382		ļi					 		<u> </u>		├			
1092		2255			2246		2383		_			<u> </u>	<u> </u>			<u> </u>		}			
1093		2261			2259		2385		 					.			L	Ь			L
1208		2367					2508								L			ļ			
1209		2377		L														L			
1277		2380											L	L				L			
1281		2509							L	<u> </u>				L			L	L			
1461	2247	2511	2620						İ İ					i				l			
	2249																				
1476	2252	2515																			
14/0	FLAM	IMAB	LE																		
		Solven	(lnk/E)ve		Pai	nt	Adh	esive	Alcohol	Sand	Oil	O	ganie	:	Раг	affin .	Solvent/Paint	Aqueous
	- 5	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		· · ·			Liquid		Solid		uid	Liquid	Solid	Liquid	Liquid		lid	So		Solid	Liquid
	Liq			Solid	Diquiu																
			Ţ	Solid	Diquit				Ţ				1456	1477	1708			Į.			2634
				Solid	Diquit					- $ -$						L					2634
				Solid	- Diquit								1456 1596	2521 2614	1708 1873 2399						2634

Table 4 Drum ID Numbers in Waste Stream Profile #540689 Drum Removal ACS NPL Site Griffith, Indiana

Waste Stream Profile #540689

Description: Flammable and chlorinated solids.

	Solvent		Ink/	Dye		Pair	Paint /		Adhesive	Alcohol	Sand	Oil	Or	ganic	Paraffin	Solvent/Paint	Aqueous
	Liquid	Solid	Liquid	Solid	Liquid		Solid		Liquid	Liquid	Solid	Liquid			Solid	Solid	Liquid
		1002		1718		1007	1460	2244									
		1098				1094	1583	2263								1	
$\neg \uparrow$						1095	1700	2360									
$\neg \vdash$						1205	1715	2391	1								
7						1206	1867	2396					11				
						1211	2160	2504								T	
						1214	2170	2610								T	
						1458	2241										
HLO	RINATED																
	Solvent		Ink/	Dye		Pai	nt		Adhesive	Alcohol	Sand	Oil	Or	ganic	Paraffin	Solvent/Paint	Aqueous
	Liquid	Solid	Liquid	Solid	Liquid		Solid		Liquid	Liquid	Solid	Liquid	Liquid	Solid	Solid	Solid	Liquid
		2164														I	
7		2165														T	

Table 5 Drum ID Numbers in Waste Stream Profile #540690 Drum Removal ACS NPL Site Griffith, Indiana

Waste Stream Profile #540690

Deservation	Chlorinosod		annania salida
Description:	Chiorinated	naint and	organic solids.

AMM.	Solve	nt	Ink	/Dye		Pai	nt		Adhesive	Alcohol	Sand	Oil	0	rganic	Paraff	in Solvent/Paint	Aqueo
Li	quid	Sol	d Liquid	Solid	Liquid		Solid		Liquid	Liquid	Solid	Liquid	Liquid	Solid	Solid	Solid	Liquio
Т															1085 14	70	
															1087 15	82	1
	T			1											1090 15	99	
															1091 17	01	
				T											1279 17	02	
T -			T												1381 17	03	
				1											1464 17	04	1
															1469 17	16	
LORE	NATE)															
	Solver			/Dye		Pai	nt		Adhesive			Oil		rganic	Paraff	n Solvent/Paint	Aqueo
Li	quid	Sol	d Liquic	Solid	Liquid		Solid		Liquid	Liquid		Liquid	Liquid	Solid	Solid	Solid	Liqui
Ι.					L		2243				2623				2242	1204	L
				<u> </u>		1099	2245	2510	L					L _	2251	1380	<u> </u>
<u> </u>				<u> </u>	L		2250		[I						2505	1383	
<u>↓</u> _	<u> </u>			<u> </u>			2258							L	\perp	1713	L
1_				1	L			2639								1714	<u> </u>
				.	L		2392										L
	<u></u>			<u> </u>		2169	2394								<u> </u>		
N-FLA	MMA																
	Solver			/Dye		Pai	_		Adhesive	Alcohol	Sand	Oil		rganic	Paraff		
<u>Li</u>	quid	Soli	d Liquic	Solid	Liguid		Solid		Liquid	Liquid		Liquid	Liquid	Solid	Solid	Solid	Liqui
	$oldsymbol{oldsymbol{\perp}}$			├	L		1709	L	 		1457				+		ļ
	\downarrow —		-	1	 		1721		L		1462				_		
\perp	<u> </u>		-	↓	L		1866		L		1466				\bot		
1_				J	L		1870	L	ll		1467				1		├
1	1		_	L			1871				1711				1		ļ
	\perp	L		 	L		1874				2171				 		L
	1		1	1	L		2611		L		2257				\bot		ļ
						1484			ll		2262			L—I—	I		L
						1706	2613 2630 2631				2262 2374 2506						

Table 6 Drum ID Numbers in Waste Stream Profile #540691 Drum Removal ACS NPL Site Griffith, Indiana

Waste Stream Profile #540691

Description: Sand and rocks

Solvent			Ink/Dye		Paint		Adhesive	Alcohol	Sand	Oil	Organic		Paraffin	Solvent/Paint	Aqueous			
	Lic	uid		Solid	Liquid	Solid	Liquid	Sc	lid	Liquid	Liquid	Solid	Liquid	Liquid	Solid	Solid	Solid	Liquid
\Box												2624						
П												2625						
												2628						
										1		2629						

Table 7 Drum ID Numbers of Drums Containing Water Treated in the Groundwater Treatment Plant Drum Removal ACS NPL Site Griffith, Indiana

		Solver	st		Ink/	Dye	L	Pa	int		Adhesive				0	rganic		Paraffin	Solvent/Paint	Aqueou
	Lie	quid		Solid	Liquid	Solid	Liquid		Solid		Liquid	Liquid	Solid	Liquid	Liquid	Soli	ď	Solid	Solid	Liquid
		T]																1216
		T	Γ	T																1478
		I	ľ	$_{\rm L}$ $^{-}$		I											7			1483
																				1585
	I																			1588
																	$\neg \tau$			1692
																				1695
	Ι			T																1719
																	$\neg \neg$			1868
	Ι.																			1869
																				2248
																				2260
	Γ_{-}		Γ					I								-1			1	2363
																				2370
																				2626
	L			I																2627
																	$\neg \neg$			2632
																				2633
		I								Ī							$\neg \neg$			2635
																				2636
																	$\neg \neg$			2637
																				2638
				I													$\neg \neg$			2640
	Π	7		7											1					2641
	Ī.																			2642
L	ORINA	TED																		
		Solven	t		Ink/	Dye		Pai	nt		Adbesive				O	rganic		Paraffin	Solvent/Paint	Aqueou
	Lic	quid		Solid	Liquid	Solid	Liquid		Solid		Liquid	Liquid	Solid	Liquid	Liquid	Solie	d T	Solid	Solid	Liquid
																				2375
	I.														7					2398
	Ţ														\neg					2501
																	\Box			2503
																				2520
			1																	2617
																	\neg			2618
				T1											$\neg \neg$					2621

Table 8 Disposal Summary for Drummed Waste Drum Removal ACS NPL Site Griffith, Indiana

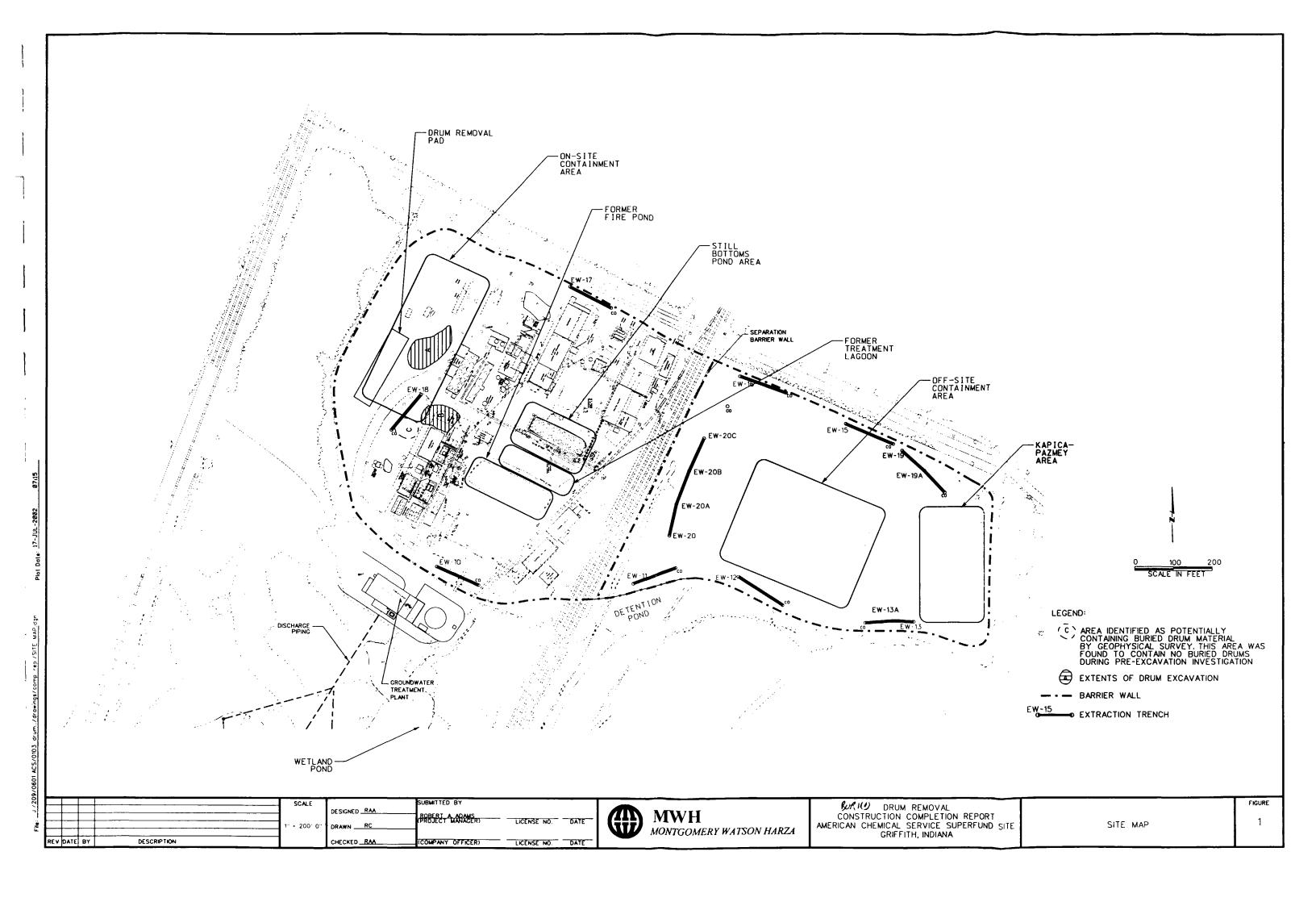
Drum Batch	Contents	Date Shipped Off Site	Manifest #	Waste Profile #	Truck ID	Date of Onyx Receipt of Delivery	Date of Destruction (per Certificate of Destruction)	
1	60 Assorted	11/5/01	02618877	540688	Oregon HQ	11/6/01	11/13/2001 (57 drums)	
•	Ovepacked Drums	7715101	02010017	J.0000	30767		11/18/01 (3 drums)	
2	60 Assorted Ovepacked Drums	11/5/01	02618878	540688	Ohio TIR 8696	11/7/01	11/20/01 (60 drums)	
3	60 Assorted	11/5/01	02618880	540690	Ohio TIR	11/7/01	11/16/01 (47 drums)	
3	Ovepacked Drums	11/3/01	02018880	340090	8695	1177/01	11/18/01 (13 drums)	
				540688 (7 drums)			12/3/01 (35 drums)	
4	47 Assorted Overpacked Drums	11/5/01	02618879	540689 (28 drums)	Ohio PUF 2906	11/7/01	12/6/01 (6 drums)	
				540690 (12 drums)			12/11/01 (6 drums)	
	5 Assorted			540688 (1 drum)	Onyx			
5	Overpacked Drums + 2 Drums of Lab	11/16/01	02618884	540689 (2 drums) ¹	Straight	12/4/01	12/26/01 (7 drums)	
	Samples			540690 (4 drums)	Truck			

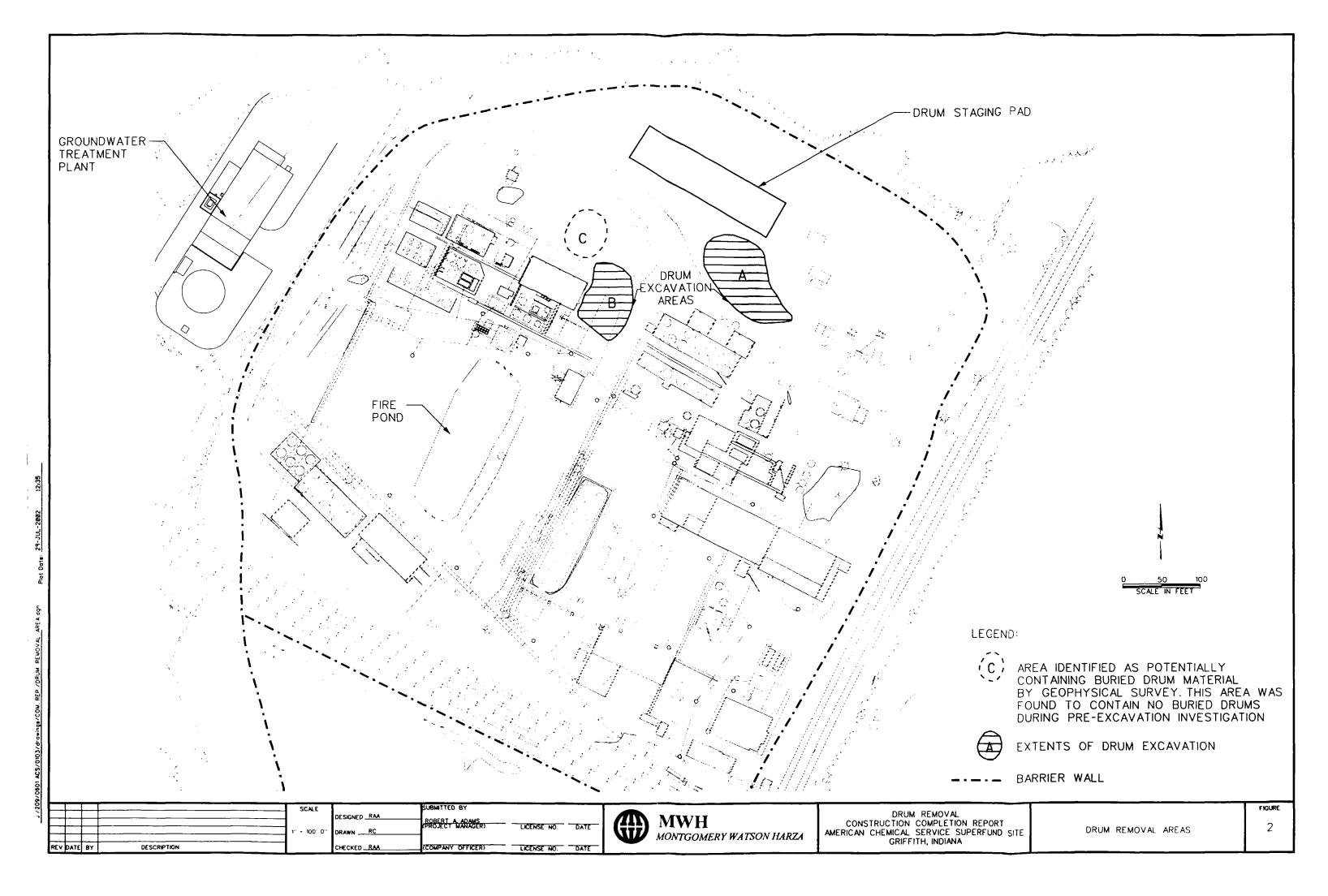
Notes:

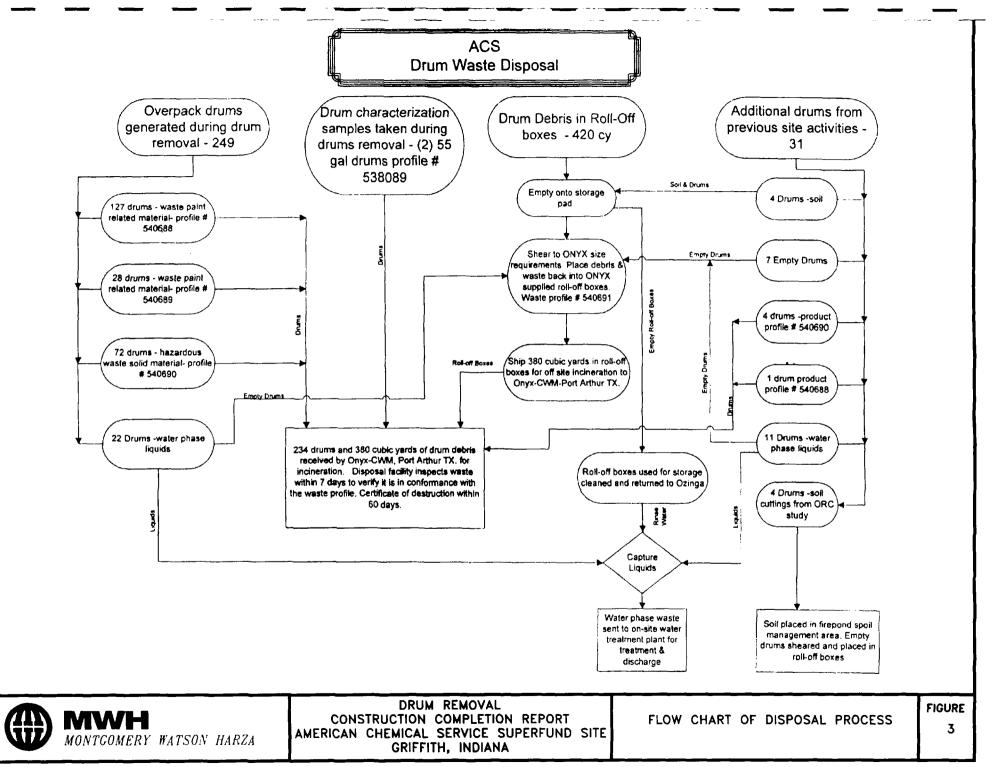
These 2 drums consisted of the sample wastes from the Hazcat analysis and duplicate samples. Therefore, they
do not have a Drum ID Number. There is an typographical error on the Certificate of Destruction that incorrectly
identifies the profile number for these drums as 538089.

Table 9
Disposal Summary for Bulk Waste
Drum Removal
ACS NPL Site
Griffith, Indiana

	Roll-Off	Date Filled	Contents	Date	Manifest #	Waste	Truck ID	Net Weight	Date of Onyx	Date of
	Box ID#	}		Shipped		Profile#		of Contents		Destruction (per
l l	ŀ	} 		Off Site				(lbs.) Port	Delivery (per	· ·
l		l				•	}	Arthur Scale	Original Manifest)	Destruction)
								Scale	(Manitest)	
							Ì			
ī	B-1112	11/9/2001	Assorted Drum Debris and used	11/9/2001	02207004	540691	Triad 2228	18,148	11/12/2001	11/17/2001
['			PPE					1		
2	B-714	11/9/2001	Assorted Drum Debris	11/9/2001	02207003	540691	Triad 2212	23,588	11/12/2001	11/15/2001
3	B-998	11/9/2001	Assorted Drum Debris	11/12/2001	02207005	540691	Triad 2035	16,688	11/13/2001	11/17/2001
4	B-811	11/9/2001	Assorted Drum Debris	11/12/2001	02207006	540691	Triad 2034	20,188	11/13/2001	11/19/2001
5	B-631	11/12/2001	Assorted Drum Debris	11/13/2001	02207009	540691	Triad 2031	25,268	11/14/2001	11/22/2001
6	B-1030	11/12/2001	Assorted Drum Debris	11/12/2001	02207007	540691	Triad 2038	13,248	11/14/2001	11/22/2001
7	B-786	11/13/2001	Assorted Drum Debris	11/14/2001	02207013	540691	Triad 2010	18,548	11/15/2001	11/23/2001
8	B-1120	11/12/2001	Assorted Drum Debris	11/13/2001	02207008	540691	Triad 2021	22,388	11/14/2001	11/19/2001
9	B-523	11/13/2001	Assorted Drum Debris	11/13/2001	02207010	540691	Triad 2232	22,068	11/14/2001	11/20/2001
10	B-870	11/14/2001	Assorted Drum Debris	11/14/2001	02207011	540691	Triad 2228	24,928	11/15/2001	11/24/2001
11	B-907	11/13/2001	Assorted Drum Debris	11/14/2001	02207012	540691	Triad 2212	14,448	11/15/2001	11/23/2001
12	B-818	11/14/2001	Assorted Drum Debris	11/15/2001	02207015	540691	Triad 2035	17,488	11/16/2001	12/4/2001
13	B-514	11/14/2001	Assorted Drum Debris	11/15/2001	02207014	540691	Triad 2034	15,488	11/16/2001	11/25/2001
14	B-615	11/14/2001	Assorted Drum Debris	11/15/2001	02207016	540691	Triad 2209	22,748	11/16/2001	11/27/2001
15	B-803	11/15/2001	Assorted Drum Debris	11/16/2001	02207017	540691	Triad 2021	36,528	11/19/2001	11/24/2001
16	B-761	11/16/2001	Assorted Drum Debris	11/16/2001	02207019	540691	Triad 2229	31,468	11/19/2001	11/25/2001
17	B-1020	11/15/2001	Assorted Drum Debris	11/16/2001	02207018	540691	Triad 2031	29,548	11/19/2001	12/5/2001
18	B-529	11/16/2001	Assorted Drum Debris	11/19/2001	02207020	540691	Triad 2209	19,708	11/20/2001	12/3/2001
19	B-1143	11/19/2001	Assorted Drum Debris	11/19/2001	02618886	540691	Triad 2235	10,408	11/20/2001	12/5/2001





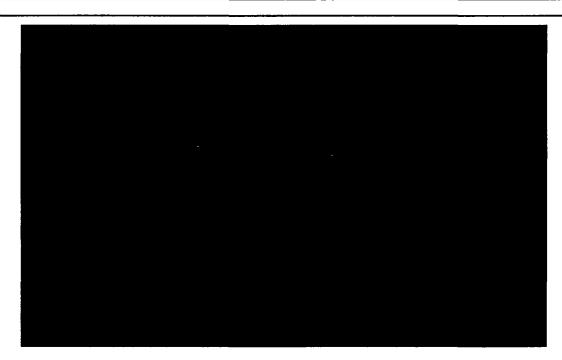


APPENDIX A

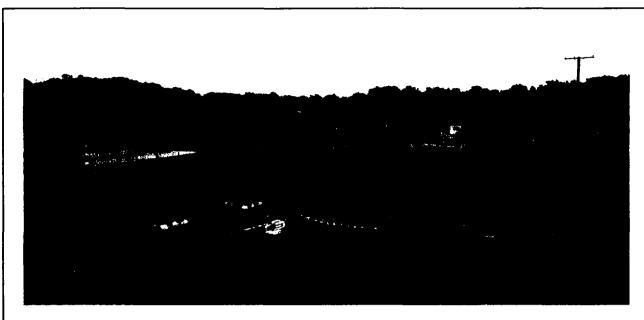
Photograph Log



1. February 2001 (Looking South): MWH digs a trench to physically confirm the extents of buried drums in the On-Site Containment Area. This photo shows Area C where no buried drums were discovered.



2. April 2001 (Looking West): The concrete for the drum staging pad is poured.



3. May 2001 (Looking Northeast): An overview of drum excavation Area A. In the center of the photo, the excavator continues removing buried drums. In the foreground are staged drums already placed into overpack containers (right) and breathing air tanks (left). In the background is the drum pad (left), roll-off containers filled with drum debris (center), and a loader moving overpack drums (right).



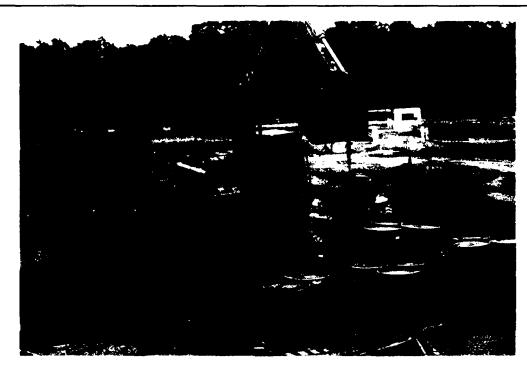
4. May 2001 (Looking South): The open excavation area, partially filled with groundwater that has seeped in. The groundwater will be pumped to the on-site treatment plant for treatment.



5. May 2001 (Looking North): KES personnel examine an excavated drum to determine its condition.



6. May 2001 (Looking Northeast): KES personnel strap an excavated drum onto the excavator so that it can be lifted into an overpack drum (right). An overpack drum is strapped to the loader to be transported to the drum staging pad.



7. May 2001 (Looking East): An excavated drum is guided into an overpack drum using a drum sling.



8. May 2001 (Looking North): Three KES personnel guide an excavated drum into an overpack drum.



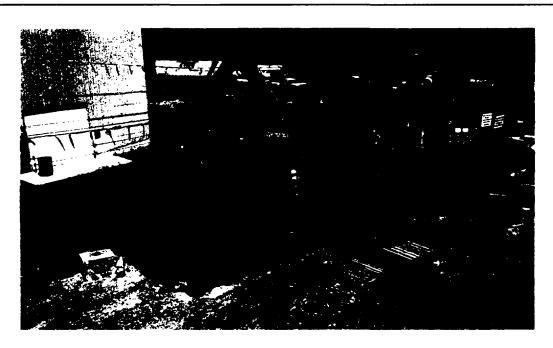
9. May 2001 (Looking Northeast): Two MWH personnel, wearing Level B PPE, oversee the excavation activities from inside the exclusion zone.



10. May 2001 (Looking Northeast): An overpack drum is transported by loader equipment to the drum staging pad.



11. May 2001 (Looking Northeast): Non-intact drums and drum debris are staged next to the excavation until they are counted and placed into a roll-off box.



12. May 2001 (Looking North): An overview of excavation Area B. High visibility markers have been placed on the nearby overhead power, phone, and communication lines.



13. May 2001 (Looking Northeast): The completed excavation area is filled with imported clean sand.



14. May 2001 (Looking North): After being placed on the drum staging pad and grounded, the intact drums are opened using non-sparking tools. Samples are extracted using coliwasa sampling tubes.



15. May 2001(Looking Southwest): Loading a dump truck with visually-impacted soil from drum excavation Area B.

The soil is then placed in the Fire Pond.



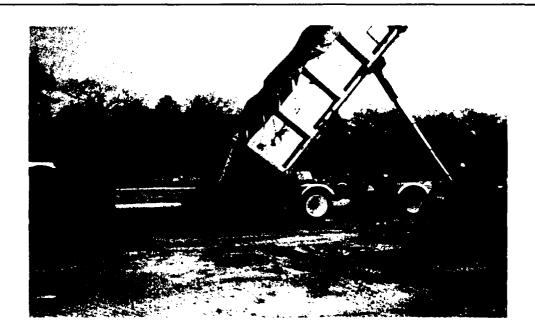
16. May 2002 (Looking South): Visually-impacted soil from the drum excavation is placed in the Fire Pond along the southern shore.



17. May 2001 (Looking Southwest): Excavated drums, placed in overpack drums, and segregated according to initial hazcat results.



18. November 2001 (Looking South): Loading overpack drums onto trucks for shipment and incineration at Onyx's Port Arthur, Texas facility.



19. November 2001 (Looking North): Each roll-off box containing drum debris is empied onto the drum staging pad for resizing and consolidation.



20. November 2001 (Looking Southwest): The protective cover of a roll-off box is removed so it can be emptied more easily onto the drum staging pad.



21. November 2001 (Looking North): Shearing the drum debris into smaller pieces so that it can be incinerated of more easily.



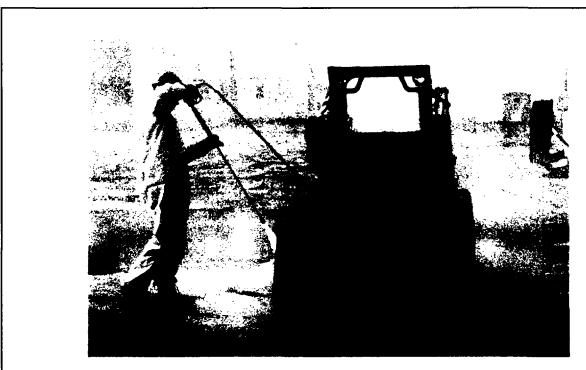
22. November 2001 (Looking North): Drums containing water are emptied and the water treated in the on-site Groundwater Treatment Plant. The empty drums are then sheared and added to the bulk waste in the roll-off boxes.



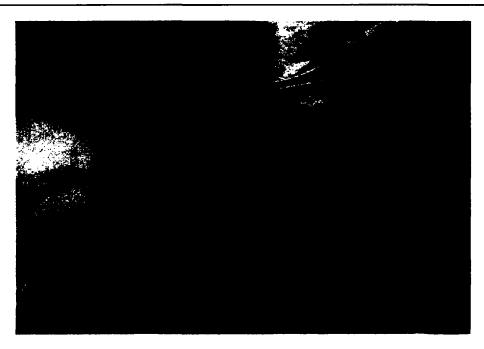
23. November 2001 (Looking North): Consolidated debris is placed back into roll-off boxes for off-site incineration.



24. November 2001 (Looking Northeast): Placing appropriate hazardous material stickers on roll-off boxes before shipment.



25. November 2001 (Looking South): Decontaminating equipment after use.



26. November 2001: The drainage sump and sump pump located at the north edge of the drum staging pad. Collected liquid is pumped to the Groundwater Treatment Plant for treatment.



27. November 2001 (Looking Northeast): The drum staging pad after completion of all drum disposal tasks, including decontamination.

APPENDIX B

Chronological Summary of Construction Activities

CHRONOLOGICAL SUMMARY OF CONSTRUCTION ACTIVITIES

Week of February 19, 2001

MWH and MEI delineated the buried drum areas February 20 through February 23. An excavator was used to dig a trench five to eight feet deep to confirm prior geophysical studies and outline the perimeter of the buried drum areas. The western-most area, Area C, was eliminated as a buried drum area after no buried drums were discovered in it.

Week of March 26, 2001

Ryan Construction began construction of the drum staging pad on March 30, 2001.

Week of April 16, 2001

A drum removal pre-construction meeting was held at the Warrenville, Illinois offices of MWH on Thursday, April 19, 2001. The U.S.EPA, IDEM, Black & Veatch, MWH, and Koester Environmental Services (KES) participated in the meeting. The objective of the meeting was to go through the Work Plan and Health and Safety issues submitted by KES and discuss potential issues.

Week of April 23, 2001

A construction kick-off meeting was held at the Site with MWH, the ACS facility, Black & Veatch, and KES, on April 23, 2001. April 23 was also the first day of mobilization for construction crews. Health and safety training for the Drum Removal was conducted for the on-site personnel on April 25, 2001. The Health and Safety training included driving the route to the nearby hospital. The drum staging pad, including a verified grounding system for drum sampling, was ready for service on April 25, 2001.

Ground was broken on the excavation in Area A on April 27, 2001 in order to dewater the drum excavation area. KES began to excavate drum debris and transport visually impacted soil to the Fire Pond area on April 27, 2001.

Week of April 30, 2001

KES continued drum excavation and transportation of visually impacted soil to the Fire Pond area. KES began to excavate intact drums, which they placed in overpack drums. Drum sampling and characterization began on April 30, 2001. MWH and KES began more aggressive dewatering of the drum excavation area to facilitate excavation efforts.

A senior MWH chemist conducted an audit of the mobile laboratory used for Hazcat testing on May 2, 2001 and confirmed that the facility could meet the project's quality objectives.

Week of May 7, 2001

KES continued drum excavation, transportation of visually impacted soil to the Fire Pond area, and drum sampling and characterization. KES began to deliver loads of clean fill material to the Site which were placed in the completed excavation areas.

Week of May 14, 2001

KES continued drum excavation, transportation of visually impacted soil to the Fire Pond area, and drum sampling and characterization. Excavation was completed in Area A on May 14. KES finished backfilling Area A on May 15 and began to excavate Area B on May 16.

Week of May 21, 2001

KES continued drum excavation, transportation of visually impacted soil to the Fire Pond area, and drum sampling and characterization. Excavation was completed in Area B on May 24, 2001.

Week of May 28, 2001

KES completed drum characterization of excavated drums. KES completed decontamination and demobilization procedures and left the Site on June 1, 2001.

June 2001 through August 2001

The overpacked drums and drum debris were stored on site as disposal options were evaluated. The overpacked drums were stored on the drum containment pad and the drum debris was stored in roll-off boxes. The drums, roll-off boxes, and staging pad were inspected regularly for signs of leakage or degradation. A database was created of Hazcat results for each sample collected during the drum removal.

During July and August 2001, waste disposal facilities were contacted to determine their requirements for accepting the overpacked drums and roll-off box contents. The disposal options were narrowed to four incineration facilities. Hazcat field sampling results were given to the four incineration facilities. MWH continued to work together with U.S. EPA and IDEM for management and disposal. MWH requested and was granted a time extension from the state of Indiana for on-site storage of drums and debris prior to transportation and disposal.

September 2001

The ACS PRP Group met with MWH on September 14, 2001 via conference call to discuss the disposal facilities being considered. MWH selected Onyx Environmental Services of Port Arthur, Texas to perform the disposal work and began working out contract details.

Week of October 22, 2001

A contract was awarded to Onyx for the disposal of the overpacked drums and drum debris collected in roll-off boxes and was signed on October 25, 2001. On the same day, Onyx collected several of the split sample jars gathered by MWH and KES during the drum removal for further review and characterization confirmation. From the KES Hazcat results and the additional analyses, Onyx created four wastestream profiles acceptable to incinerate all of the overpacked drums and debris. Therefore, no additional sampling or analyses were required or performed.

Week of October 29, 2001

The drum waste handling process was described in more detail in a memo sent to the U.S. EPA and IDEM on October 30, 2001.

The health and safety and project kickoff meeting for the drum disposal activities was held on November 2, 2001 with MWH, Onyx, Black & Veatch, MEI, and the ACS facility.

Week of November 5, 2001

227 overpacked drums which had been stored on the On-Site Area drum pad were labeled, loaded, and transported off-site by Onyx and Midwest Environmental, Inc. (MEI) on November 5, 2001. The overpacked drums were shipped to Onyx's Port Arthur, Texas disposal facility for incineration.

After the overpacked drums were removed from the Site, MEI began on November 8, 2001 to empty each hazardous waste roll-off box of drum debris onto the drum pad for shearing and resizing to the dimensions necessary for processing at the Onyx facility. The drum debris had been stored in roll-off boxes from the earlier drum removal. After resizing, the debris was placed into Onyx roll-off boxes, which were then transported to Onyx's Port Arthur, Texas facility for incineration.

Week of November 12, 2001

MEI continued to resize and shear the debris and place it into Onyx containers for transportation and disposal to Texas. The shearing work was completed on November 16, 2001.

The 33 drums of water which had been stored on the drum pad (22 overpacked drums excavated during the drum removal and 11 drums generated during previous Site activities) were pumped to the Groundwater Treatment Plant (GWTP) for treatment and discharge. 31 drums that had been stored on the pad, including the 11 drums that had contained water, as mentioned above, were also disposed of as outlined in the November 2, 2001 memo to the Agencies.

The final five overpacked drums and two drums of laboratory samples were transported by Onyx for disposal on November 16, 2001.

Week of November 19, 2001

The final sheared drum debris was transported in roll-off boxes to the Texas facility on November 19, 2001.

December 2001

Onyx confirmed that all material shipped to their Port Arthur facility for incineration was in conformance with the waste profiles that had been established. The majority of the destruction certificates were received from Onyx.

January 2002

The final destruction certificates were received from Onyx Environmental Services for all drum and drum debris material shipped to their Port Arthur facility for incineration. This completed the drum removal and disposal task.

TMK/JDP/RAA/PJV J:\209\0601 ACS\0103 Drum Removal\6010103a026.doc

APPENDIX C

PCB Analyses (From Drums Identified by Hazcat Analysis as Potentially Containing PCBs)



14649 Highway 41 North • Evansville, IN 47711 (812) 867-0100 • Fax (812) 867-4478 www.koesterco.com 1-888-KOESTER

October 25, 2001

Mr. Travis Klingforth Montgomery Watson Harza Constructors, Inc. 27755 Diehl Road Suite 300 Warrenville, OH 60555

RE: American Chemical Drum Project

Dear Mr. Klingforth:

Per your requested, enclosed are the PCB analytical results for the above-referenced project.

If you have any questions, please give me a call at (812) 868-6224. Thank you.

Sincerely,

Judy Olson

/jo

Enclosure



12065 Lebanon Rd. Mt Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ms. Maureen Handler Koester Environmental Services Inc. 14649 Hwy 41 North Evansville, IN 47725

June 12, 2001

Date Received

June :

01, 2001

ESC Sample # : L45332-01

Description

ESC Key: KOESTIN-MONTGOMERY

Sample ID

PCB-01

Site ID :

53085

Collected By

Project # : ACS-NPL SITE

Collection Date :

Maureen Handler 05/21/01 13:00

Montgomery Watson

Dil. Parameter Result Det. Limit Units Method Date Polychlorinated Biphenyls PCB 1016 BDL 800 mg/kg 8082 06/07/01 40000 PCB 1221 06/07/01 40000 BDL 800 mg/kg 8082 PCB 1232 RDI. 1600 mg/kg 8082 06/07/01 40000 06/07/01 40000 PCB 1242 BDI. 800 mg/kg 8082 PCB 1248 BDL 800 mg/kg 8082 06/07/01 40000 PCB 1254 BDL800 mg/kg 8082 06/07/01 40000 PCB 1260 BDL 800 mg/kg 8082 06/07/01 40000

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01

KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233 Note:

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

Representative



12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ms. Maureen Handler Koester Environmental Services Inc. 14649 Hwy 41 North Evansville, IN 47725

June

PCB-02

Date Received :

Description

Sample ID

June 12, 2001

ESC Sample # : L45332-02

ESC Key : KOESTIN-MONTGOMERY

Site ID : 53085

Project # : ACS-NPL SITE

01, 2001

Montgomery Watson

Collected By Maureen Handler Collection Date : 05/31/01 13:10

:

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polychlorinated Biphenyls						
PCB 1016	BDL	800	mg/kg	8082	06/07/01	40000
PCB 1221	BDL	800	mg/kg	8082	06/07/01	40000
PCB 1232	BDL	1600	mg/kg	8082	06/07/01	40000
PCB 1242	BDL	800	mg/kg	8082	06/07/01	40000
PCB 1248	BDL	800	mg/kg	8082	06/07/01	40000
PCB 1254	BDL	800	mg/kg	8082	06/07/01	40000
PCB 1260	BDL	800	mg/kg	8082	06/07/01	40000

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01

KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233 Note:

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

Attachment A List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L45332-01	PCB 1016	0
	PCB 1221	0
	PCB 1232	0
	PCB 1242	0
	PCB 1248	0
	PCB 1254	0
	PCB 1260	0
L45332-02	PCB 1016	0
	PCB 1221	0
	PCB 1232	0
	PCB 1242	0
	PCB 1248	0
	PCB 1254	Ο
	PCB 1260	0

Attachment B Explanation of QC Qualifier Codes

Qualifier	Meaning
0	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

ESC recognizes and utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program. We firmly believe that information pertaining to sample analysis should be made available to the ESC client. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC.

Definitions:

- Accuracy The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision The agreement between a set of samples or between duplicate samples.

 Relates to how close together the results are and is represented by
 Relative Percent Difference.
- Surrogate Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

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(012) 0/0 //25	Client Project #	_		roject #						Phone (\$00) 767-5859
Phone: (812) 868-6635 FAX: (812) 867-4478	ACS .	UPL SITE	!	ESTIN-MO	ONTGOM	ER	y ·				5) 758-5859
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Relinquished by: Signature	Date: Time		Samples returnéd via: FedEx □Courier		Condition:	(lab use only)
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APPENDIX D

IDEM RCRA Compliance Audit Letter



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live

Frank O'Bannon
Governor

Lori F. Kaplan
Commissioner

100 North Senate Avenue P.O. Box 6015 Indianapolis, Indiana 46206-6015 (317) 232-8603 (800) 451-6027 www.state.in.us/idem

VIA CERTIFIED MAIL 7000 0520 0023 5041 3552

November 5, 2001

Douglas Draia
American Chemical Service, Inc.
420 South Colfax Avenue
P. O. Box 190
Griffith, Indiana 46319

Dear Mr. Draia:

Re: Inspection Results

Hazardous Waste Management Compliance Evaluation Inspection American Chemical Service, Inc. EPA Id No., IND 016 360 265

Griffith, Lake County

Representatives of the Department of Environmental Management (Department) are conducting inspections of facilities in Indiana that are engaged in the generation, transportation, treatment, storage, or disposal of hazardous wastes. Facilities are being inspected to determine compliance with Indiana Code 13 (IC 13), "Environmental Management Act", and Indiana Administrative Code, 329 IAC 3.1, "Hazardous Waste Management Permit Program and Related Hazardous Waste Management Requirements." These inspections and record reviews are being conducted pursuant to the requirements of the Resource Conservation and Recovery Act (RCRA), Public Law 94-580, as amended, for authorized state hazardous waste management programs.

This is to inform you that on October 30, 2001, I conducted an inspection of American Chemical Service, Inc., located at 420 South Colfax Avenue, Indiana 46319. You represented your firm. For your information, a summary of the inspection report is provided below:

Type of Inspection:	<u>X</u>	Complete RCRA Hazardous Waste Inspection
		Limited RCRA Hazardous Waste Inspection
	_	Complaint
		Other:

American Chemical Service, Inc. Inspection Results Page 2 Additional information is required to evaluate overall Results of Inspection: ____ compliance. You will receive a written report within 30 days. In compliance, no violations noted. X In compliance, violations were observed, but were corrected during the inspection. See inspection report. Violations were observed and require a follow-up inspection. See inspection report. Re-inspection will be conducted after Violations were observed and are being referred to our Office of Enforcement. See inspection report. Please direct any response to this letter and any questions to me @ 317/308-3367.

Sincerely, Kick Kondelrish, C.Hmm

Rick Roudebush, CHMM

Certified Hazardous Materials Manager

Environmental Manager Industrial Waste Section Compliance Branch Office of Land Quality

RRR

Enclosure

Cc: IDEM - NWRO, Director

Lake County Health Department



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT INDUSTRIAL/HAZARDOUS WASTE INSPECTION REPORT

se type		201	Ameri	can Chemica	al Services	, Inc.		=	-	 	
acility Location	- 4		South C	Colfax Avenu	ie						
City:	Griff	fith	-	······································	County:	Lake];	Zip: 46319	
Inspecto	or's l	Name:	R	ick Roudet	oush, CH	MM			1	· · · · · ·	
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B. INSPECTION FINDINGS

I. Type and Size of Operation, Products, Processes That Produce Waste (hazardous or non-hazardous

American Chemical Services, Inc. (ACS) is a manufacturer of chemical additives for fuels and plastics. Hazardous wastes are generated in the additives manufacturing, oxidation building and blending building.

Hazardous wastes are also being generated form a Super Fund clean up (drum excavation and groundwater) at the site.

II. Regulatory Status/Activity for Hazardous and Industrial Waste (Based on Inspection)

Large Quantity Generator (LQG)

III. | Hazardous Waste Streams (including Universal Waste)

EPA #/Description	Sources/Process	Generation Rate	Disposition
D001/F005 (Toluene contaminated filter paper)	Additives Manufacturing	Varies	Heritage Environmen Services, Lamont, Illinois
D001/F005 (Toluene contaminated linseed oil)	Oxidation Building	"	
D001 (Plastizer filters)	· · · ·	"	
D001 (Off-spec additives)	Blending Building		
D001 (Product contaminated soils)			
D001/F005 (Spent oils contaminated with toluene)	u u		
			;

				
IV.	Exempted/Excluded Hazardous	Waste Streams or Units and	Reason	for Exemption

A

V. Transporter(s) Used (Include both Industrial and Hazardous Waste Transporters)

Heritage Environmental Services, Inc. (IND 016 360 265)

Description	Source/Process	Generation Rate	Disposition
sed Oil	Maintenance Activities	Varies	HES
د			

Descri	<90(180) Day Accumulation Description of unit		ay Accumulation otion of Unit	<90(180) Day Accumulation Description of unit			
Location: Co	ontainer Storage	Location:	Super Fund Clean Up Area	Location:			
Waste Code	#/Size of Containers	Waste code	#/Size of Containers	Waste Code	#/Size of Containers		
D001/F005	19 – 55 gallon drums	F001/F002/F00 3/F004/F005/ D001	249 – 55 gallon drums 420 cubic yards (in 20 yd3 containers) * All SF wastes to be removed to Onyx Environmental Services, Port Arthur, Texas, starting 11/5/01	Water Code	Size of Containers		
		T	al Waste Accumulati				
Lo	cation	Waste C	Code(s)/Process		Comments		
Additives Manı	ıfacturing	D001/F005					
Oxidation Build	ling						
Blending Build	ing	66 66					

Waste Codes/Location	Type/Construction	Size	Quantity On-Site
Other Regulated U	nit(s) (i.e. Containment Buil	ding, Waste Piles, etc.)	
Waste Codes/Location	Type/Construction	Size	Quantity On-Site
		1	

XI.		Company is subject to the following regulations						
		40 CFR 261.5 / 329 IAC 3.1-6 Conditionally Exempt Generator						
	х	40 CFR 262 / 329 IAC 3.1-7 Generator Standards						
		40 CFR Part 263 / 329 IAC 3.1-8 Transporter Standards						
		40 CFR Part 264/265 / 329 IAC 3.1-9 & 10 Facility Standards						
		X 40 CFR Subpart I Container Standards						
		40 CFR Subpart J Tank Standards						
		40 CFR Subpart AA Air Emission – Process Vent						
		40 CFR Subpart BB Air Emission - Equipment Leaks						
		40 CFR Subpart CC Air Emission - Tanks, Surface Impoundments & Containers						
		Other (specify):						
		40 CFR Part 266 / 329 IAC 1-11 (specify):						
		40 CFR Part 273 / 329 IAC 3.1-16 & Universal Waste						
X 329 IAC 13 Used Oil Management								
	327 IAC 2-10 Secondary Containment Rule							
	329 IAC 9 Underground Storage Tank Rule							
		IC 13-20-7.5 Industrial Waste Law						
ı		Other (specify):						
XII.		Additional Comments (Include Non-Program Violations) (please include information regardin how the company is complying with the notification requirement of IC 13-20-7.5 for Industrial Waste.						
X	III.	Please list guidance materials provided to facility:						

IX.	Narrative / Desc	ription of Violations						
acility Name: American Chemical Service, Inc. ID#: IND 016 360 265								
adress	Eddress: 420 South Colfax Ave., Griffith, In. 46319 Inspection Date: October 30 and 31, 2001							
The Indiana Hazardous Waste Rules, 329 IAC 3.1, incorporates by reference federal standards, which have been published in the Code of Federal Regulations as 40 CFR 260 through 40 CFR 270. Citations reference the federal iles as incorporated, except where the State rule substitutes full text language, in which case the specific 329 IAC 2.1 citation will be used. If the facility has been issued a permit, specific permit conditions may be cited.								
Regulatory Citation Violation Observed/Suggested Correction and Compliance Date								
		No violations noted during this ins	pection.					
ر								



Attachment A

October 30, 2001

Kevin Adler
Remedial Project Manager
Region V, Mail Code SR-J6
U.S. Environmental Protection Agency
77 West Jackson Boulevard
Chicago, Illinois 60604-3590 312 886 7078

Sean Grady
Project Manager
Indiana Department of Environmental Management
100 N. Senate Ave.
Indianapolis, Indiana 46204

Re: Disposal of Overpacked Drums and Drum Debris in Roll-off Containers ACS NPL Site RD/RA

Dear Messrs. Adler and Grady:

This letter summarizes the activities and schedule for the upcoming disposal of overpacked drums and drum debris excavated from the American Chemical Service, Inc. (ACS) National Priority List (NPL) Site in Griffith, Indiana (Site) during April and May 2001. The ACS PRP Group has selected Onyx Environmental Services of Port Arthur, Texas as the incineration and disposal facility to receive the drums and drum debris.

The final contract between Onyx and the PRP Group for the disposal of the overpacked drums and drum debris collected in roll-off boxes was signed on October 25, 2001. During the drum removal activities earlier this year, MWH and Koester Environmental Services (KES) collected split samples from each of the 249 overpacked drums. KES used these samples to perform Hazcat analyses and determine potential waste streams. The split samples were stored on site for additional profile analyses. Onyx was given the Hazcat results from KES. On October 25, 2001 Onyx collected several of the split sample jars for further review and characterization confirmation. From the KES Hazcat results and the additional analyses, Onyx has created four wastestream profiles (see attached profiles) that are acceptable to incinerate all of the overpacked drums and debris. Therefore, no additional sampling or analyses will be performed.

The overpacked drums currently stored on the On-Site Area drum pad will be labeled, loaded, and transported off site by Onyx starting next Monday, November 5, 2001 (see attached flow chart summarizing drum waste disposal process). After the overpacked drums are removed from the site, Midwest Environmental, Inc. (MEI) will empty each roll-off box of drum debris onto the drum pad for resizing to the dimensions necessary for

processing at the Onyx facility. The resized debns will then be placed into Onyx containers for transportation and disposal beginning the week of November 12, 2001. The roll-off containers that currently store the drum debns will be decontaminated and returned to Ozinga Transportation. For your information, attached is also a draft copy of the U.S. EPA Notification of Regulated Waste Activity form created for the Site.

The drum disposal activities to be performed on the ACS Site will be conducted on the drum pad and isolated from other activities occurring on the Site. Personnel within the exclusion zone to be erected for disposal activities will wear Level B Personal Protective Equipment (PPE), including supplied breathing air. Heavy equipment will be utilized including a loader, a hydraulic shearer for the resizing of drum debris, and trucks for the transportation of overpacked drums and roll-off containers. Liquids will be collected in the sump of the drum storage pad and pumped to the treatment plant for treatment.

An Onyx representative will be on site to observe waste loading and the resizing process, and to verify waste profile compliance. A minimum of two MWH personnel will also be on site, one to monitor Health and Safety activities and the other to perform Quality Assurance oversight.

If you have questions on the information provided in this letter, please contact me at (630) 836-8900.

Sincerely,

MONTGOMERY WATSON HARZA

FOR Todd A. Lewis

Construction Manager

Enclosures:

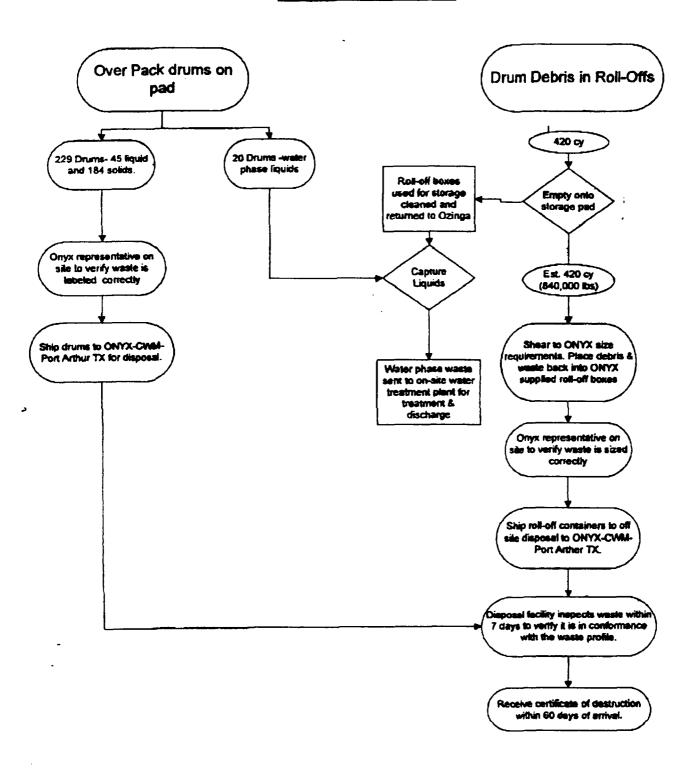
Wastestream Information Profiles created by Onyx
Flow Chart Summarizing Drum Waste Disposal Process
Draft of U.S. EPA Notification of Regulated Waste Activity form

cc: FILE

2090601.0103

Barbara Magel
Mark Travers
Larry Campbell
Rob Adams
Pete Vagt
Travis Klingforth

TMK/TAL/PJV/RAA J:\209\0601 AC\$\0103 Drum RemovaR6010103s016.doc ACS
Drum Waste Disposal
October 30, 2001



Indiana Department of Environmental Management VERIFICATION OF INSPECTION

is to verify that on Orlow nducted by the undersigned repre	30, 2001 an inspection of sentative of the Indiana Departme	American Chemical Service ent of Environmental Management,	was Office of Land Quality
Type of Inspection:			
X Complete Industrial/Ha Limited Industrial/Hazz Industrial Waste Landf	ardous Waste Inspection	Complaint Multi-Media Screening Evaluation Other	
spection Findings:			
In compliance, no viola	ations observed.		
In compliance, violatio	ns were observed but corrected durin	g the inspection. See inspection repor	t.
Violations were observ	ed and require a submittal and/or foll	ow-up inspection. See inspection repo	ort.
Violations were observ	ed and are being referred to our Offic	ce of Enforcement. See inspection rep	ort.
	/review is required to evaluate overal	I compliance.	
Other		·	
Multi-Media Screening Checklist Fit	nding:		
will be referred to the single-media inspect. If non-compliance is of	determined or additional information will be the lead IDEM Companies of environmental protection in lespecially manufacturing processes, evention program is entirely voluntary. Assistance?YesNo sence during the inspection were very sencouraged to correct any deficience das violations; however, prompt active.	n/review is required to evaluate overall office(s) in pursuing these matters. Indiana. The goal of pollution prevent so that less environmental wastes are go. Would your company like to be contributed to the undersignation of the company like to be contributed to the undersignation of the contributed as soon as possible. Corrections	compliance, the Office(s) ion is to promote changes generated. Your tacted by IDEM's Office
Written report provided at the c	conclusion of the inspection.	X Written report will be provided wi	thin 45 days.
IDEM Representative: Printed Name	Signature	Phone Number	Date
Rick Roudebush	Rich Rondelich	317-308-3867	10/30/01
Company Representative:		•	_
Printed Name	Signature	Phone Number	Date
DOUGLAS R DRAIA	1 Shorai	219 924 4370	10/30/01
Street/PO Box	O City, State, Zip	Ownership	Fax Number
• =	•	1	_ \

Indiana Department of Environmental Management VERIFICATION OF INSPECTION

This is to verify that on <u>OC+ 31</u> conducted by the undersigned repres	entative of the Indiana Departme	nt of Environmental Management,	Office of Land Quality
Type of Inspection:			
Complete Industrial/Haza Limited Industrial/Haza Industrial Waste Landfil		Complaint Multi-Media Screening Evaluation Other Mecting w/Contract c-1 SF act	ours, facilly
-	to a character		
In compliance, no violation		g the inspection. See inspection report	
		ow-up inspection. See inspection report	
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Multi-Media Screening Checklist Fin	ding: – NA		
will be referred to the single-media inspection. If non-compliance is a	on report and multi-media screening determined or additional information will be the lead IDEM Comments of environmental protection in I especially manufacturing processes, vention program is entirely voluntary Assistance? Yes No	ndiana. The goal of pollution preventi so that less environmental wastes are g . Would your company like to be cont bally communicated to the undersigne	compliance, the Office(s con is to promote changes generated. Your tacted by IDEM's Office
during the inspection may still be cited to any enforcement action, which may	as violations; however, prompt action be taken.		letermining the resolution
Written report provided at the co	onclusion of the inspection.	written report will be provided wil	mm 45 days.
IDEM Representative: Printed Name	Signature	Phone Number	Date
Rick Roudebusherm	Ruck Conditual	317-308-3367	10/31/01
		1	
Company Representative: Printed Name	Signature	Phone Number	Date
Thomas J. Fromus	The France	219-924-4370	10/31/01
Street/PO Box	City, State, Zip	Ownership _	Fax Number
470 6. Coltax Aux	(~ +1.+1, m'4/360	1 m mation	974-5298

APPENDIX E

Waste Disposal Documentation



Austin, Texas 78711-3087



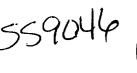
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- L - T Y	20. Facility Owner or Operator: Certification of rec		is manifest e	xcept as noted	d in Item 19.	Date		
	Printed/Typed Name Martha Williams BCC-0311 (Rev. 07/01/97)	Signature White - original Pink-TSD Facility	Yellow-Train	Olian Asporter Gre	een-Generator's	Month Day Year		

Austin, Texas 78711-3087



Re. 7:00 Am

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20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.	ear							
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Form approved OMB No. 2050-0039

Austin, Texas 78711-3087

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

1. Generator's US EPA ID No. **UNIFORM HAZARDOUS** 2. Page 1 Information in the shaded areas I N D 0 1 6 3 6 0 2 6 5 0 9 0 0 4 of is not required by Federal law. **WASTE MANIFEST** 3. Generator's Name and Mailing Address A. State Manifest Document Number MERICAN CHRUICAL SERVICES, INC MATRIMENT WATERN MARZA 420 SOUTH COLFAX AVE. 27755 DIEHL BOAD, SUITE 300 630) 836-8900 WARRENVILLE 4. Generator's Phone (CASIS MENSONS STORY OF 193 US EPA ID Number 5. Transporter 1 Company Name 6. DART TRUCKING COMPANY, INC. 7. Transporter 2 Company Name R Trainsporter's Phone G. State Pacility's ID. 9. Designated Facility Name and Site Address US EPA ID Number CHEMICAL WASTE MANAGEMENT, INC. 3.5 MILES W. OF TAYLOR'S BAYOUT Facility's Phone HICHWAY 73 PORT ARTHUR. TX TXD000838896 11. US DOT Description (including Proper Shipping Name, Hazard Class, ID 12. Containers Linit Total Number and Packing Group) Nα Type Wasta No. Quantity ard waste paint related material including paint 133 THINNING, DRYING, REMOVING, OR REDUCING COMPOUND 007 DM 00595 G F001: 3.UN1263.II_(D001) bro waste paint related material including paint THINNING, DRYING, REMOVING, OR REDUCING COMPOUND 028 DM 02380 G 3.UN1263.II (D001) CRQ WASTE PAINT RELATED MATERIAL INCLUDING PAINT THINNING, DRYING, REMOVING, OR REDUCING COMPOUND 012 DM 01020 3,UN1263,II (D001) A ... 2001 NOV 7 9:20 J. Additional Differentiation Mail A)5406861PTA5406BB COTTA B)540689; PTA540889; OUTS: 8086 Special Handling Instructions and Additional Information PACKING SLIPS ATTACHED FOR CLARIFICATION EMERGENCY NUMBER-INFOTRAC: 800 535-5053 TRUCK #4 LOAD WEIGHT: 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford Printed/Typed Name ON BEHALF OF ACT ROYRA Signature Month Day Year TRAVIS KLINGFORTH 1.110.510.1 EXECUTIVE COMMITTEE 17. Transporter 1 Acknowledgement of Receipt of Materials Date Day Printed/Typed Name Year 18. Transporter 2 Acknowledgement of Receipt of Materials Date Printed/Typed Name Signature Month Day Year 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Date Printed/Typed Name Month n. Timerson Yellow-Transporter Green-Generator's first copy White - original Pink-TSD Facility TNRCC-0311 (Rev. 07/01/97)

P.O. Box 13087

Austin, Texas 78711-3087

TNRCC-0311 (Rev. 07/01/97)

Form approved, OMB No. 2050-0039

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) UNIFORM HAZARDOUS 1. Generator's US EPA ID No. Manifest Page 1 Information in the shaded areas I N D 0 1 6 3 6 0 2 6 5 0 1 0 1 0 0 is not required by Federal law. WASTE MANIFEST 3. Generator's Name and Mailing Address A. State Manifest Document Number riinea prii 0 **2.6.1 18.8**.8 AMERICAN CHEMICAL SERVICES.INC 420 SOUTH COLFAI AVE. <u>Hontgoment watson marzi</u> B. State Generator's ID 27755 DIENL ROAD, SUITE 300 4. Generator's Phone (630) 836-8900 WARRENY US EPA ID Number Overate Transporter still 1970 5. Transporter 1 Company Name O H D O O 9 8 6 5 8 2 5 D Transported Phone DART TRUCKING COMPANY, INC. US EPA ID Number 7. Transporter 2 Company Name E State Transporter s 10 years a comment F. Transporter's Phone G. State Facility's ID 9. Designated Facility Name and Site Address US EPA ID Number BERRING STATE OF TEXAS PIRON CHEMICAL WASTE MANAGEMENT, INC. HIGHWAY 73 3.5 MILES W. OF TAYLOR'S BAYOUH Facility's Phone 409 73 PORT ARTHUR, TX 77640 |TXD000838896 11. US DOT Description (including Proper Shipping Name, Hazard Class, ID 12. Containers Total Unit Waste No. Number and Packing Group) Type Quantity aNQ WASTE PAINT RELATED MATERIAL INCLUDING PAINT THINNING, DRYING, REMOVING, OR REDUCING COMPOUND 060 DM 05100 3,UN1263,II (D001) b. 2001 NOU 7 8:40 J. Additional Descriptions for Materials Littled Above

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Pink-TSD Facility

Yellow-Trailsporter Green-Generator's first copy

White - original

Austin, Texas 78711-3087



Please print or type (Form designed for use

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T`	3. Generator's Name and Mailing Address AMERICAL CHEMICAL SERVICES, INC	_ <u>v_V_/</u>	A. State Manifest Document Number							
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	4. Generator's Phone (630) 836-8900 5. Transporter 1 Company Name	GRIFFITH, IN MARREMVILLE, IL 6055	US EPA ID Number			te Transporter	100	d Brown (1)		
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	9. Designated Facility Name and Site Addres	s s ' 10.	US EPA ID Number		F. Transporters Prints G. State Facility's ID HOTH SAKST TO STATE LIA STRUM 98918					
	CHEMICAL WASTE MANAGEMENT, HIGHWAY 73	3.5 MILES	W. OF TAYLOR'S	S BAYO	JH, Fac	lity's Phone	12 344	3181600010	_	
	PORT ARTHUR, TX 77640		. D. U. U. U. B. 3.18	· 8 · 9 · 6	<u> </u>	13.	<i>₩ ((</i>)	8-2821		
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NER	brq waste paint relate									
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li	3,UN1263,II (D001)			002	Dr				; ;	
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	HAZARDOUS MATERIALS HAVE ACCORDANCE WITH THE DEPAR	BEEN PROPERLY	PACKAGED, LABE	LLED A	ND MA	RKED IN	n RRC			
	16. GENERATOR'S CERTIFICATION: I hereby declassified, packaged, marked, and labelled/pl.	eclare that the contents of	this consignment are fully a	and accurate	ly descr	ibed above by pr	oper ship	ping name and are		
	national government regulations, including app If I am a large quantity generator, I certify that	olicable state regulations. t I have a program in place	to reduce the volume and	toxicity of w	aste gen	erated to the deg	ree I hav	re determined to be		
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177	20. Facility Owner or Operator: Certification of	or receipt or hazardous r	naterials covered by this	rnanifest e	except a	is noted in Item	19.	Date	_	
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		WASTE MANIFEST (Continuation Sheet) 21. Generator's US EPA ID No. Manifest Doc 0100	cument No	22. Page 272	Information in areas is not re law.	the shaded quired by Federal	
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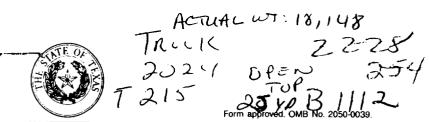
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H	3. Generator's Name and Mailing Address						
Ш	AMERICAN CHEMICAL SERVICES, INC 420 SOUTH C	OLFAX AVE.					
Ш	HONTOURINT WATSON MARZA		•				
		46319					
Ш	5. Transporter 1 Company Name 6.	US EPA ID Numl					
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111	9. Designated Facility Name and Site Address 10.	US EPA ID Numl	ber				
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	15. Special Handling Instructions and Additional Information						
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111	ACCORDANCE WITH DEPARTMENT OF TRANSPOR	TATION AND EP	A REQUIR		rs. cod re	10⁻D.	1888 FO 18 1
Ш	 GENERATOR'S CERTIFICATION: I hereby declare that the contents of classified, packaged, marked, and labelled/placarded, and are in all re 						
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CONSERVATION COMMISSION P.O. Box 13087 Austin, Texas 78711-3087



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Ш	3. Generator's Name and Mailing Address		1				(2.1.12)	
П	AMERICAN CHEMICAL SERVICES, INC 420 SOUTH C	OLFAX AVE.						
Ш	HOUTGOMERT WATSON HARZA 27755 DIENL BOAD, SUITE 300 GRIFFITH, II	1 46319						
Ш	4. Generator's Phone (530) 536-5900 WARRESTILLE, IL 605	55						
Ш	5. Transporter 1 Company Name 6.	US EPA ID N						
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	future threat to human health and the environment; OR, if I am a small of	quantity generator, I h						
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Austin, Texas 78711-3087

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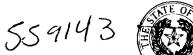
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	If I am a large quantity generator, I certify that I have economically practicable and that I have selected the						
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P.O. Box 13087

TNRCC-0311 (Rev 07/01/97)





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Austin, Texas 78711-3087

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	3. Generator's Name and Mailing Address AMERICAN CHEMICAL SERVICES, INC HOWTOURIST VATSON MARKET 27755 DIENL BOAD, SUITE 300 4. Generator's Phone (630) 836-8900 WARRENVILLE, IL 6055		21 m 11 Ma			
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Green-Generator's first copy

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Austin, Texas 78711-3087 Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 1. Generator's US EPA ID No. Manifest UNIFORM HAZARDOUS 2. Page 1 Information in the shaded areas INDO 1 6 3 6 0 2 6 5 000 000 000 of is not required by Federal law. WASTE MANIFEST 3. Generator's Name and Mailing Address EDICAL CHEMICAL SERVICES, INC 420 SOUTH COLFAX AVE. HOSTOCHERY WATSON MARIA 27755 DIEGE BOAD, SUITE 300 630) 836-8900 WARRENT [1] 4. Generator's Phone (5. Transporter 1 Company Name US EPA ID Number 6. TRIAD TRANSPORT. OKD981588 7. Transporter 2 Company Name US EPA ID Number 9. Designated Facility Name and Site Address 10 US EPA ID Number CHEMICAL WASTE MANAGEMENT. INC. CHAIN SHAME AND A 4.141.. HICHMAY 73 3.5 MILES W. OF TAYLOR'S BAYO PORT ARTHUR, TX |TXD00083889 டி நாச்சி கார்க் ரெ. A **Total** நாள்க Quantity 11: US DOT Description (including Proper Shipping Name, Hazard Class, ID 12. Containers Number and Packing Group) No. Type aro Hazardous Waste, Solid, n.o.s. 9, NA3077, III (F001, F002, F003, F004, F005) 001 00020 Œ b. #S:6 PINON d. 15. Special Handling Instructions and Additional Information PACKING SLIPS ATTACHED FOR CLARIFICATION EMERGENCY NUMBER-INFOTRAC: 800 535-5053 HAZARDOUS MATERIALS HAVE BEEN PROPERLY PACKAGED, LABELLED AND MARKED IN 1972 300 1973 1974 ACCORDANCE WITH DEPARTMENTS OF STRANSPORTATION AND PRATEROUGERS CONTRACTORS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PROPERTOR OF TRANSPORTATION AND PROPERTOR OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRATEROUGERS OF TRANSPORTATION AND PRAT 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. ON BEHALF OF ACS Printed/Typed Name Signature Month Day Year RD/RA EXECUTIVE COMMITTEE 0.1 16.131 TRAVIS KLINGFORTU 11 17. Transporter 1 Acknowledgement of Receipt of Materials Date Printed/Typed Name Month Day Year NENDELL GRESHAM 18. Transporter 2 Acknowledgement of Receipt of Materials Date Printed/Typed Name Signature Month Day Year 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Pink-TSD Facility / How Pransporter

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Austin, Texas 78711-3087



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Austin, Texas 78711-3087

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		UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EP/ I. N. D. O. 1. 6. 3		Manifest ogumentolog	2. Page of		ation in the s required by		
	器	nerator's Name and Mailing Address ICAN CHIDICAL SERVICES, INC ROULET WATSON BARZA 55 DIERL BOAD, SUITE 300	420 SOUTH CO	•	: ٤`					
$\ $	4. Ge	nerator's Phone (530) 836-8900	MARRENVILLE, IL 6055		- t					
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Austin, Texas 78711-3087





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Austin, Texas 78711-3087
Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

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	277 4. Ge	nerator's Name and Mailing Address IICAI CEINICAL SERVICES, IIIC COUNTY MATSUL MATA 5 PIREL BOAD, SUITE 300 nerator's Phone (630) 536-8900 WARK	420 SOUTH CO	46319 5									
		nsporter 1 Company Name	6.	US EPA II									
\mathbb{H}		AD TRANSPORT, INC.		D 9 8 1									
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Ш	9. De:	signated Facility Name and Site Address	10.	US EPA II	D Number								
Н		MICAL WASTE MANAGEMENT, INC).										
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Austin, Texas 78711-3087



ACTUAL WT: 18,548 TOP 2010 TOPL 244 25

Form approved OMB No. 2050-0039.

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Austin, Texas 78711-3087



Form approved. OMB No 2050-0039.

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3. Generator's Name and Mailing Address AMERICAL CEDITICAL STRYICES, INC	420 SOUTH COL							
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Austin, Texas 78711-3087







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	3. Generator's Name and Mailing Address AMERICAL CHEMICAL SERVICES, INC HOSTGORIET WATSON BAZA 27755 DIEBL ROAD, SUITE 300 4. Generator's Phone (630) 836-8900 W.	420 SOUTH CO.	46319					
	5. Transporter 1 Company Name	6.	US EPA ID Nu	mber				
Н	TRIAD TRANSPORT, INC.	O K	D9815	8 8 7 9 1				
	7. Transporter 2 Company Name	8.	US EPA ID Nu	mber				
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1	9. Designated Facility Name and Site Address		US EPA ID Nu	mber				
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1	11. US DOT Description (including Prop Number and Packing Group)	per Shipping Name, Ha	zard Class, ID	12. Contair No.	ners Type	13. 'Total	.14. ⁴ Unit	
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	15. Special Handling Instructions and Addition						· 	
	PACKING SLIPS ATTACHED FOR HAZARDOUS MATERIALS HAVE	CLARIFICATIO	N EMERGENCY PACKAGER	ANYPER-II	KOTRA	C:800 53	5-5053	
	ACCORDANCE WITH DEPARTMENT		•		MENTS			
	16. GENERATOR'S CERTIFICATION: I hereby dec	clare that the contents of t	his consignment are	fully and accurate	ly describe	d above by pro	per shipping na	
	classified, packaged, marked, and labelled/place national government regulations, including applied		pects in proper condi	tion for transport	by highway	according to a	pplicable intern	ational and
	If I am a large quantity generator, I certify that I							
	economically practicable and that I have selecte future threat to human health and the environment							
L	the best waste management method that is avail							
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1	20. Facility Owner or Operator: Certification of	receipt of nazardous m	iaterials covered by	y inis manifest e	xcept as t	noted in item 1	ıs.	Date
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Austin, Texas 78711-3087



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Form approved. OMB No. 2050-0039.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form approved. OMB No. 2050-0039.									
$\mathbf{\Lambda}$	UNIFORM HAZARDOUS	1. Generator's US EF			. Page 1	Information in	the shaded areas		
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TNI	RCC-0311 (Rev. 07/01/97)	White - origin	nal Pink-TSD Facility	Yellow-Trayis	porter Green	-Generator's fir			

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION P.O. Box 13087 Austin, Texas 78711-3087

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2021/204 X BOX # B803 25/D Form approved. OMB No. 2050-0039.

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UNIFORM HAZARDOUS 1. Generator's US EPA ID No.	Manifest	2. Page 1 Inform	ation in the shaded areas
WASTE MANIFEST I N. D. O. 1. 6. 3. 6. 0. 2. 6.	9 Go Giu Gu Qy o'1	of 1 is not	required by Federal law.
3. Generator's Name and Maifing Address AMERICAL CREMICAL SERVICES, INC 420 SOUTH COLFAX AVE. 100 TROUBERT MATSON BARYA 27755 DIEBL ROAD, SUITE 300 4. Generator's Phone (630) 836-8900 NAMESSVILLE, IL 60555			To the Topical
5. Transporter 1 Company Name 6. US EPA ID! TRIAD TRANSPORT, INC. 0 K D 9. 8. 1.			
TRIAD TRANSPORT, INC. Q K D 9 8 1 8 7. Transporter 2 Company Name 8. US EPAID 1			
7. Hansporter 2 company Name	unioci		
9. Designated Facility Name and Site Address CHRMICAL WASTE MANAGEMENT, INC. HIGHWAY 73 3.5 MILES W. OF TAY PORT ARTHUR, TX 77640 IT X D 0.0 0.8	LOR'S BAYO		
11A. 11. US DOT Description (including Proper Shipping Name, Hazard Class, ID	\ 12. Contain	ers 113,	442
HM Number and Packing Group)	1	Type Quantity	Vnit Wt/Vol
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15. Special Handling Instructions and Additional Information			
PACKING SLIPS ATTACHED FOR CLARIFICATION EMERGENC	Y NUMBER-IN	FOTRAC:800 53	35-5053
HAZARDOUS MATERIALS HAVE BEEN PROPERLY PACKAGED, ACCORDANCE WITH DEPARTMENT OF TRANSPORTATION AND	TWRITED W	d marked in	
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment a	re fully and accuratel	y described above by pro	oper shipping name and are
classified, packaged, marked, and labelled/placarded, and are in all respects in proper co national government regulations, including applicable state regulations.		1	
If I am a large quantity generator, I certify that I have a program in place to reduce the volu economically practicable and that I have selected the practicable method of treatment, stora	ge, or disposal curre	ntly available to me which	n minimizes the present and
future threat to human health and the environment; OR, if I am a small quantity generator, I the best waste management method that is available to me and that I can afford.	nave made a good fa	ιτη eποτί το minimize my	waste generation and select
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18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature			Date Month Day Year
19. Discrepancy Indication Space			
		·	
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered	by this manifest ex	cept as noted in Item	
Printed/Typed Name Signature	101.	·^ ·	Month Day Year
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Austin, Texas 78711-3087

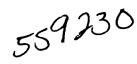


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	5. Tra	nsporter 1 Company Name	6. US EPA ID Nun	nber				
Ш			OKD98151					
П	7. Tra	nsporter 2 Company Name	8. US EPA ID Nun	nber				
П	Q Dos	ignated Facility Name and Site Address	10. US EPA ID Nun	her				
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			LES W. OF TAYLO	OR'S BAYO				
Ш	POR	r Arthur, TX 77640	TXDOOOB					
	11A. HM	 US DOT Description (including Proper Shipping Name Number and Packing Group) 	e, Hazard Class, ID	12. Contair No.	ers Type	13. Total Quantity	14. Unit Wt/Vol	
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	HA	vardous materials have been proper	LY PACKAGED, LA	BELLED A	ND H	ARKED IN	0 0000	
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	cla	ssified, packaged, marked, and labelled/placarded, and are in a	ill respects in proper conditi					
		ional government regulations, including applicable state regulatio am a large quantity generator, I certify that I have a program in		and toxicity of wa	iste ger	nerated to the degr	ee I have deter	mined to be
		onomically practicable and that I have selected the practicable moure threat to human health and the environment; OR, if I am a sm						
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L	20. Fac	cility Owner or Operator: Certification of receipt of hazardo	ous materials covered by	this manifest e	xcept a	as noted in Item	19.	
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Austin, Texas 78711-3087





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ľľ	3. Ge	nerator's Name and Mailing Addre	ess		V V V				100	177
	AMER	ICAN CHEMICAL SERVICES, INC GOMENT WAYSON MARZA 5 DIENL ROAD, SUITE 300	420 S	OUTH COLFAX AVR.			1:-			
	4. Ge	nerator's Phone (630) 636-6	900 WARRENYILLE.	TH, IN 46318 IL 60555			:			*** *****
	5. Tra	nsporter 1 Company Name			ID Number					
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1	7. Tra	nsporter 2 Company Name			ID Number					1
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	9. Des	signated Facility Name and Site A	ddress	10. US EPA	ID Number					4
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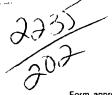


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3. Generator's Name and Mailing Address AMERICAL CHRICAL SERVICES, INC HORTOGREET WATSON BARZA 27755 DIEBL BOAD, SUITE 300 4. Generator's Phone (\$30) \$36-8900 1	420 SOUTH COLFAX AVE. GRIFFITH, IN 46319 WARRENVILLE, IL 60555			o To III a verbera i i i a chiperita I i i I
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classified, packaged, marked, and labelled/pla national government regulations, including app If I am a large quantity generator, I certify that economically practicable and that I have select	I have a program in place to reduce the volume and ted the practicable method of treatment, storage, or or	for transport by toxicity of waste disposal currentl	highway according to a e generated to the degr y available to me which	applicable international and ee I have determined to be minimizes the present and
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o 18. Transporter 2 Acknowledgement of Racei	pt of Materials			Date
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19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification o	f receipt of hazardous materials covered by this	s manifest exce	ept as noted in Item	
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A		1. Generator's US EPA I N D 0 1 6 3	M 6 0 2 6 5 0 0	anifest imentNo		rmation in the shaded areas ot required by Federal law.
	3. Generator's Name and Mailing Address AMERICAN CHEMICAL SERVICES, INC HONTGORERY WATSON BARZA 27755 DIEHL ROAD, SUITE 300	420 SOUTH COI GRIFFITH, IN RRENVILLE, IL 60555	FAX AVE. 46319	3	-086 Carre	Designation of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of t
	TRIAD TRANSPORT, INC. 7. Transporter 2 Company Name	•	D. 9. 8. 1. 5. 8. 8 US EPA ID Number	· 7·9·1	THE PROPERTY OF THE	
	9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, I HIGHWAY 73 PORT ARTHUR, TX 77640	NC. 3.5 MILES	W. OF TAYLOR DO 0.0 8.3 8	S BAYO	G. State Facility's 10 NOTES NAMES FOR ST I.I. Facility's Phone.	
	11A. HM Number and Packing Group)			12. Contain	1 40	14. Waste No.
G E Z E F €	aRQ HAZARDOUS WASTE, SO X 9,NA3077,III (F001,F00		005)	001	CH 00020	y F003
ATOR I	200 IaNOU20 13:43					Marita di
	d.					IF STEW
	J. Additional Descriptions for Materials Listed / J. Additional Descriptions for Materials Listed / J. A. A. A. A. A. A. A. A. A. A. A. A. A.	H 002,F004,F005 al Information CLARIFICATION EEN PROPERLY	N EMERGENCY NU PACKAGED, LABE	BER-IN	FOTRAC: 800 5 D MARKED IN	post trainer in charge and the first
	16. GENERATOR'S CERTIFICATION: I hereby dec classified, packaged, marked, and labelled/plac national government regulations, including applie If I am a large quantity generator, I certify that I economically practicable and that I have selected future threat to human health and the environment the best waste management method that is available.	elare that the contents of the carded, and are in all respectable state regulations. Have a program in place of the practicable method ent; OR, if I am a small quilable to me and that I can	this consignment are fully a pects in proper condition for to reduce the volume and of treatment, storage, or di antity generator, I have ma afford.	and accurated or transport to toxicity of wa isposal curre	y described above by by highway according the ste generated to the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the dintribution of the	proper shipping name and are to applicable international and egree I have determined to be the minimizes the present and
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L T Y	20. Facility Owner or Operator: Certification of Printed/Typed Name The Rescarding Trimes and Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trimes Trim	· · · · · · · · · · · · · · · · · · ·	Signature	manifest ex	xcept as noted in Ite	m 19. Date Month Day Year
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TSDF Certificates of Destruction

1405,004110

Federal EPA ID: TXD000838896 State EPA ID: 50212-001 Highway 73

Port Arthur, TX 77643 (409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION IND016360265 **420 S COLFAX ST** GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/16/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002207016.

Sequence 1

Profile Number: 540691 Onyx Tracking ID: 559224

CWM Unit ID

1

Treatment Date

11/27/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

- Sluin Stallworth

29-Nov-01

Federal EPA ID: TXD000838896

State EPA ID: 50212-001

Highway 73

Port Arthur, TX 77643

(409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/19/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002207017.

Sequence 1

Profile Number:

540691

Onyx Tracking ID:

559229

Muin Stallwort

CWM Unit ID

Treatment Date

1

11/24/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

26-Nov-01

Federal EPA ID: TXD000838896 State EPA ID: 50212-001 Highway 73 Port Arthur, TX 77643 (409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/19/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002207018.

Sequence 1

Profile Number: 540691 Onyx Tracking ID: 559251

CWM Unit ID

Treatment Date

1

12/5/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

Milain Malloon

Federal EPA ID: TXD000838896

State EPA ID: 50212-001

Highway 73

Port Arthur, TX 77643

(409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/19/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002207019.

Sequence 1

Profile Number:

540691

Onyx Tracking ID:

559230

Fluin Stallworth

CWM Unit ID

Treatment Date

1

11/25/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

26-Nov-01

Federal EPA ID: TXD000838896 State EPA ID: 50212-001 Highway 73 Port Arthur, TX 77643 (409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/20/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002207020.

Sequence 1

Profile Number: 540691 Onyx Tracking ID: 559260

CWM Unit ID

1

Treatment Date

12/3/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

Elsin Madwell"

Federal EPA ID: TXD000838896

State EPA ID: 50212-001

Highway 73

Port Arthur, TX 77643

(409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/20/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002618886.

Sequence 1

Profile Number:

540691

Onyx Tracking ID:

559262

CWM Unit ID

Treatment Date

1

12/5/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

Then Madron't

Federal EPA ID: TXD000838896

State EPA ID: 50212-001

Highway 73

Port Arthur, TX 77643

(409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/7/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002618877.

Sequence 1

Profile Number: 540688
Onyx Tracking ID: 559045-01

CWM Unit ID	Treatment Date			
1	11/13/01			
2	11/13/01			
3	11/13/01			
4	11/13/01			
5	11/13/01			
6	11/13/01			
7	11/13/01			
8	11/13/01			
9	11/13/01			
10	11/13/01			
11	11/13/01			
12	11/13/01			
13	11/13/01			
14	11/13/01			
15	11/13/01			
16	11/13/01			
17	11/13/01			
18	11/13/01			
19	11/13/01			

20	11/13/01
21	11/13/01
22	11/13/01
23	11/13/01
26	11/13/01
27	11/13/01
28	11/13/01
29	11/13/01
30	11/13/01
31	11/13/01
32	11/13/01
33	11/13/01
34	11/13/01
35	11/13/01
36	11/13/01
37	11/13/01
38	11/13/01
39	11/13/01
40	11/13/01
41	11/13/01
42	11/13/01
43	11/13/01
44	11/13/01
45	11/13/01
46	11/13/01
48	11/13/01
49	11/13/01
50	11/13/01
51	11/13/01
52	11/13/01
53	11/13/01
54	11/13/01
55	11/13/01
56	11/13/01
57	11/13/01
58	11/13/01
59	11/13/01
60	11/13/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

Mun Mathrown

15-Nov-01

Federal EPA ID: TXD000838896

State EPA ID: 50212-001

Highway 73

Port Arthur, TX 77643

(409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION

IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/7/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002618877.

Sequence 1

Profile Number: 540688
Onyx Tracking ID: 559045-01

CWM Unit ID	<u>Treatment Date</u>
24	11/18/01
25	11/18/01
47	11/18/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

Whin Stallnown

26-Nov-01

Federal EPA ID: TXD000838896

State EPA ID: 50212-001

Highway 73

Port Arthur, TX 77643

(409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION

IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/7/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002618878.

Sequence 1

Profile Number: 540688
Onyx Tracking ID: 559044-01

CWM Unit ID	Treatment Date
1	11/20/01
2	11/20/01
3	11/20/01
4	11/20/01
5	11/20/01
6	11/20/01
7	11/20/01
8	11/20/01
9	11/20/01
10	11/20/01
11	11/20/01
12	11/20/01
13	11/20/01
14	11/20/01
15	11/20/01
16	11/20/01
17	11/20/01
18	11/20/01
19	11/20/01

20	11/20/01
21	11/20/01
22	11/20/01
23	11/20/01
24	11/20/01
25	11/20/01
26	11/20/01
27	11/20/01
28	11/20/01
29	11/20/01
30	11/20/01
31	11/20/01
32	11/20/01
33	11/20/01
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38	11/20/01
39	11/20/01
40	11/20/01
41	11/20/01
42	11/20/01
43	11/20/01
44	11/20/01
45	11/20/01
46	11/20/01
47	11/20/01
48	11/20/01
49	11/20/01
50	11/20/01
51	11/20/01
52	11/20/01
53	11/20/01
54	11/20/01
55	11/20/01
56	11/20/01
57	11/20/01
58	11/20/01
59	11/20/01
60	11/20/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

Luin Stallworth

21-Nov-01

Federal EPA ID: TXD000838896 State EPA ID: 50212-001 Highway 73 Port Arthur, TX 77643 (409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/7/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002618879.

Sequence 1

Profile Number: 540688
Onyx Tracking ID: 559046-01

CWM Unit ID	Treatment Date		
1	12/3/01		
2	12/3/01		
3	12/3/01		
4	12/3/01		
5	12/3/01		
6	12/3/01		
7	12/3/01		

Sequence 2

Profile Number: 540689
Onyx Tracking ID: 559046-02

CWM Unit ID	Treatment Date			
1	12/3/01			
2	12/3/01			
3	12/3/01			
4	12/3/01			
5	12/3/01			
6	12/3/01			

7	12/3/0	1
8	12/3/0	1
9	12/3/0	1
10	12/3/0	1
11	12/3/0	1
12	12/3/0	1
13	12/3/0	1
14	12/3/0	1
15	12/3/0	1
16	12/3/0	1
17	12/3/0	1
18	12/3/0	1
19	12/3/0	1
20	12/3/01	1
21	12/3/01	l
22	12/3/01	l
23	12/3/01	i
24	12/3/01	j
25	12/3/01	1
26	12/3/01	

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

Milion Mallionen

Federal EPA ID: TXD000838896

State EPA ID: 50212-001

Highway 73

Port Arthur, TX 77643

(409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/7/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002618879.

Sequence 2

Profile Number:

540689

Onyx Tracking ID:

559046-02

CWM Unit ID

Treatment Date

27

12/3/01

28

12/3/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

Prestuin Stallworth

Federal EPA ID: TXD000838896 State EPA ID: 50212-001 Highway 73 Port Arthur, TX 77643 (409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/7/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002618879.

Sequence 3

Profile Number: 540690
Onyx Tracking ID: 559046-03

CWM Unit ID	Treatment Date		
1	12/6/01		
2	12/6/01		
3	12/6/01		
4	12/6/01		
5	12/6/01		
6	12/6/01		

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

- Lange Madeson"

Federal EPA ID: TXD000838896

State EPA ID: 50212-001

Highway 73

Port Arthur, TX 77643

(409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/7/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002618879.

Sequence 3

Profile Number: 540690
Onyx Tracking ID: 559046-03

CWM Unit ID	Treatment Date
7	12/11/01
8	12/11/01
9	12/11/01
10	12/11/01
11	12/11/01
12	12/11/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

Whin Mallwort

Federal EPA ID: TXD000838896

State EPA ID: 50212-001

Highway 73

Port Arthur, TX 77643

(409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/7/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002618880.

Sequence 1

Profile Number: 540690 Onyx Tracking ID: 559043-01

CWM Unit ID	Treatment Date
1	11/16/01
2	11/16/01
3	11/16/01
4	11/16/01
5	11/16/01
6	11/16/01
7	11/16/01
8	11/16/01
9	11/16/01
10	11/16/01
11	11/16/01
12	11/16/01
13	11/16/01
14	11/16/01
15	11/16/01
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17	11/16/01
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22	11/16/01
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27	11/16/01
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32	11/16/01
33	11/16/01
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36	11/16/01
37	11/16/01
38	11/16/01
42	11/16/01
43	11/16/01
44	11/16/01
45	11/16/01
46	11/16/01
47	11/16/01
50	11/16/01
51	11/16/01
53	11/16/01
54	11/16/01
55	11/16/01
56	11/16/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

Malleon Million Million

Federal EPA ID: TXD000838896

State EPA ID: 50212-001

Highway 73

Port Arthur, TX 77643

(409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION IND016360265

420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/7/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002618880.

Sequence 1

Profile Number: 540690
Onyx Tracking ID: 559043-01

CWM Unit ID	Treatment Date
29	11/18/01
30	11/18/01
31	11/18/01
39	11/18/01
40	11/18/01
41	11/18/01
48	11/18/01
49	11/18/01
52	11/18/01
57	11/18/01
58	11/18/01
59	11/18/01
60	11/18/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

Main Stallworth

Federal EPA ID: TXD000838896 State EPA ID: 50212-001 Highway 73 Port Arthur, TX 77643 (409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 12/4/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002618884.

Sequence	1
----------	---

Profile Number:

538089

Onyx Tracking ID:

559485-01

CWM Unit ID

Treatment Date

1

12/26/01

2

12/26/01

Sequence 2

Profile Number:

540688

Onyx Tracking ID:

559485-02

CWM Unit ID

Treatment Date

1

12/26/01

Sequence 3

Profile Number:

540690

Onyx Tracking ID:

559485-03

CWM Unit ID

Treatment Date

1

12/26/01

2

12/26/01

Sequence 4

Profile Number: 540690
Onyx Tracking ID: 559485-04

CWM Unit ID	Treatment Date
1	12/26/01
2	12/26/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

- Luin Stallnown

27-Dec-01

Federal EPA ID: TXD000838896 State EPA ID: 50212-001 Highway 73 Port Arthur, TX 77643 (409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/12/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002207003.

Sequence 1

Profile Number:

540691

Onyx Tracking ID:

559113

CWM Unit ID

Treatment Date

1

11/15/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

Plain Mallyon"

Federal EPA ID: TXD000838896

State EPA ID: 50212-001

Highway 73

Port Arthur, TX 77643

(409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION

IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/12/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002207004.

Sequence 1

Profile Number:

540691

Onyx Tracking ID:

559114

CWM Unit ID

Treatment Date

1

11/17/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

Main Maderin

Federal EPA ID: TXD000838896

State EPA ID: 50212-001

Highway 73

Port Arthur, TX 77643

(409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/13/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002207005.

Sequence 1

Profile Number: 540691 Onyx Tracking ID: 559142

CWM Unit ID

Treatment Date

1

11/17/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

The day Malleon"

Federal EPA ID: TXD000838896

State EPA ID: 50212-001

Highway 73

Port Arthur, TX 77643

(409) 736-2821

AMERICAN CHEMICAL SERVICES INC

ATTN: MANIFEST SECTION

IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/13/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002207006.

Sequence 1

Profile Number:

540691

Onyx Tracking ID:

559143

CWM Unit ID

Treatment Date

1

11/19/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

Marin Making NI

Federal EPA ID: TXD000838896

State EPA ID: 50212-001

Highway 73

Port Arthur, TX 77643

(409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/14/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002207007.

Sequence 1

Profile Number: 540691 Onyx Tracking ID: 559154

CWM Unit ID

Treatment Date

1

11/22/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

Muin Stallworth

Federal EPA ID: TXD000838896 State EPA ID: 50212-001 Highway 73 Port Arthur, TX 77643 (409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/14/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002207008.

Sequence 1

Profile Number:

540691

Onyx Tracking ID:

559161

CWM Unit ID

Treatment Date

1

11/19/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

The Stallown

Federal EPA ID: TXD000838896 State EPA ID: 50212-001 Highway 73 Port Arthur, TX 77643 (409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/14/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002207009.

Sequence 1

Profile Number: 540691 Onyx Tracking ID: 559155

CWM Unit ID

Treatment Date

11/22/01

1

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

Milain Stallworth

Federal EPA ID: TXD000838896

State EPA ID: 50212-001

Highway 73

Port Arthur, TX 77643

(409) 736-2821

AMERICAN CHEMICAL SERVICES INC

ATTN: MANIFEST SECTION

IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/14/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002207010.

Sequence 1

Profile Number:

540691

Onyx Tracking ID:

559172

Muin Stakkoon

CWM Unit ID

Treatment Date

1

11/20/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

Federal EPA ID: TXD000838896

State EPA ID: 50212-001

Highway 73

Port Arthur, TX 77643

(409) 736-2821

AMERICAN CHEMICAL SERVICES INC

ATTN: MANIFEST SECTION

IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/15/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002207011.

Sequence 1

Profile Number:

540691

Onyx Tracking ID:

559199

Milain Station

CWM Unit ID

Treatment Date

1

11/24/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

Federal EPA ID: TXD000838896 State EPA ID: 50212-001 Highway 73 Port Arthur, TX 77643 (409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/15/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002207012.

Sequence 1

Profile Number: 540691 Onyx Tracking ID:

559198

CWM Unit ID

1

Treatment Date

11/23/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all

applicable laws, regulations, permits, and licenses on the date listed above.

Milain Stallnown

Federal EPA ID: TXD000838896 State EPA ID: 50212-001 Highway 73 Port Arthur, TX 77643 (409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/15/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002207013.

Sequence 1

Profile Number: 540691
Onyx Tracking ID: 559197

CWM Unit ID

Treatment Date

1

11/23/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

Muin Mallrown

Federal EPA ID: TXD000838896 State EPA ID: 50212-001 Highway 73 Port Arthur, TX 77643 (409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/16/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002207014.

Sequence 1

Profile Number: 540691
Onyx Tracking ID: 559225

CWM Unit ID

Treatment Date

1

Huin Stallworth

11/25/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

Federal EPA ID: TXD000838896 State EPA ID: 50212-001 Highway 73 Port Arthur, TX 77643

(409) 736-2821

AMERICAN CHEMICAL SERVICES INC ATTN: MANIFEST SECTION IND016360265 420 S COLFAX ST GRIFFITH, IN 46319

CERTIFICATE OF DESTRUCTION

Onyx Environmental Services, L.L.C. has received waste material from AMERICAN CHEMICAL SERVICES INC on 11/16/01 as described on [State Manifest or Uniform] Hazardous Waste Manifest number 0002207015.

Sequence 1

Profile Number:

540691

Onyx Tracking ID:

559226

CWM Unit ID

Treatment Date

1

12/4/01

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits, and licenses on the date listed above.

Their Malloon"

05-Dec-01

APPENDIX F

Sand Certification Letter

NORTHERN INDIANA MATERIAL, CORP. 9331 WEST 205TH AVENUE LOWELL, IN 46356

JAN 2 1 2000

219/696-5467 FAX: 219/696-3713 LAB FAX 219/696-1667

E-MAIL: nimcor@netnitco.net

January 14, 2002

MWH
Att: Rob Adams
2755 Diehl Road
Suite 300
Warrenville, Illinois 60555

Dear Mr. Adams:

As per your request for information regarding the sand that was picked up at Northern Indiana Material on May, 2001 for your job at American Chemical Service Site in Griffith, Indiana, please be advised that the sand mined at Northern Indiana Material is a natural sand and is excavated and mined as virgin material and has no known contaminates.

If you have any questions please do not hesitate to contact Caroll or Jeff at 219/696-5468.

Sincerely,

William J. Critser

Owner

Caroll E. Cordeau

Certified Lab Technician

mrel Portan -

APPENDIX G

Air Monitoring Logs

Drum Removal Activities – **Air Monitoring Logs from Inside the Exclusion Zone (KES)**

DAILY AIR MONITORING FORM

Page ___ of ___

Site: Sampler.				
AC,5 Griffeth IN		Retutul		
Date:			Description of Acti	ivities:
4.2	7-01		Drum Es	cavatian
	S	ITE MONITORI	NG RESULTS	
Time	Monitoring Location	Instrument (Passport, PID, etc.)	Instrument Reading, with units	Comments
2:20	Sump	PID	0.0	Started dissing
3:20	a'	Passport	02 20.8	10 Me f
10:10	. 11	PID	1.7	
10:10	u	Pasgent	20.4 02	
10:35	<i>(</i> 1	Drager	300 ppn	Benzence
11:00	(1	e (,300 ppn	VC
11:15	r(n	5.Rpm	Frichlouthyline
12:00	c(PIO	12.8	
12.00	ď	Pacapat	20.6 02	
1:15	10Ft away from supp	Drogen	.200	B
1:30	i 11	11	300	VC
1:45	10 Ft away from surge	Drager	5. ppm	T
a:00	Back of empty dues	PID	3.7	
2:00	40 10	Pasyzot	ab.6 02	
	Beside Bockhoc	RID	2.8	
4:30	Back of sportpile	PID	1,9	
		Revie	√ √	Dot
Sampler	The land	Signature:	? 	Date: 4-27-0/
Manager/F	oreman; exn Hanola	Signature	ndh	Date: 4 - 27 - 01

Page \perp of 2

Site: A (25		Sampler: Lutiell		
Date:			Description of Activities:		
4-,	30-01				
	·	SITE MONITORIN	NG RESULTS		
Time	Monitoring Location	Instrument (Passport, PID, etc.)	Instrument Reading, with units	Comments	
850	Downwind	PIO	0.0	Started digging	
8:50	10	Passport	20.7 02	00 0	
9:05	10	Orogen	.300	Benzene	
9:10	d	,(2.24	VC	
9:18	i(57	(5.	Trichlorottylere	
9:20	<i>t</i> t	PIO	6.1		
9:20	ir	Passport	20.4 02		
10:30	t (PID	9.3		
10.30	ч 	Passport	20,5 02		
10:45	£c .	Drager	.a00	Benzene	
10:55	t <i>i</i>	11	300	VC	
11:10	70	u .	(5.00	T	
11:15	(1	PID	11.2		
11:35	17	Passport	20.6 02		
3:00	. (PID	2.2		
3:15	ď	Drawn	.920	Bennene	
		Review			
Sampler:	wtrell	Signature:	#/	Date: 4-30-01	
Manager/Fo		Signature	de	Date/ 4/30~0/	

*

Page 2 of 2

	5	SITE MONITORIN	IG RESULTS	
Time	Monitoring Location	Instrument (Passport, PID, etc.)	Instrument Reading, with units	Comments
3 25	Danmina	Prour	5.60	VC
13.45	ı'	· ·	45.00	T
13:45	X,	PID	6.9	
13:45	¥.	Passont	20.4 02	
14:35	ц	Progr	.220	B
:	V	A /	.680	VC
	€.,	(,	\$5.00	∇
15:20	soupling drum	PTO	0.0	
16:15	· da ·	Passent	20.8	
16:30	, u	HCN	000	
		4		
			y	
		· · · · · · · · · · · · · · · · · · ·	· .	
				**
		·		
			-1 3	
)
			i	
Complem		Review		Date:
Sampler:	Fut re/	Signature:	7	4-30-191
Manager/Fo	preman/	Signature	ndh	Date/ 4/30/0/

Page 1 of 2

Site:		T	Sampler:		
			RJ Futrell		
Date:	. 0.		Description of Activities:		
3 -	1-01				
! !	· · · · · · · · · · · · · · · · · · ·	SHE MONITORIN		1	
Time	Monitoring Location	Instrument (Passport, PID, etc.)	Instrument Reading, with units	Comments	
9:00	Suppling drus	PID	0.0		
9:00	100	Passant	20.6		
9:30	R.C.	PJD	0.0		
9:45		Pargoot	20.1		
10:30	State draw	Drages	.220	Benjene	
11:00	ν ///	4	1.16	VC	
11:20	Downwind edge of	se	< 5.00	. A	
		X PID	18.9		
11:20	1 r	Passport	20,102		
12:30		PJD	5.6		
12:30		Rassport	20.8 02	,	
12:45		Duga	.200	Benzese	
1:00		и	.530	VCI	
1:15		V	< 500	V	
1.20		RID	8.9		
1:20		Pausat	20.8		
		Review			
Sampler: RJF	tre bl	Signature:	U1	Date: 5-1-01	
Manager/#		Signature	Min	Date:	

Page 2 of 2

SITE MONITORING RESULTS				
Time	Monitoring Location	Instrument (Passport, PID, etc.)	Instrument Reading, with units	Comments
2:30	1 e	PID	6.8	
2:30	17	Passport	20.6	
	·			
Complex		Review	-	Data
Sampler: RJ Fatra	2//	Signature	M	Date: 5 - 1 - 01
Manager/Ford	eman:	Signature	K	Date: 5-1-0

Page 1 of 2

Site:			Sampler:	
AC5			RJ Futrell	
Date:				
5- Q	- N 1		,	
<u> </u>				
	S	ITE MONITORIN	IG RESULTS	
Time	Monitoring	Instrument	Instrument	Comments
	Location	(Passport, PID, etc.)	Reading, with units	
8:50	Daupling Duns	PID	0.0	
8:50	100	Possport	20.6	
9:25	ţr	PID	0-0	
9:26	ı.	Porsport	a0.4	
10:30	Statod remains du	PID	00	
10:35	Dronwing	Drager	.350	Bennen
10:45	Ci	W.	.640	VC
10:55	(-	ŀ	45.00	V
11:00	4	PID	3.0	
11:25	U	PID	3:6	
11:25	t c	Parsport	200 02	
12:20	Ų	Drager		B
12:30	a	4c	5.40	VC
2:40	J.	U	15.00	T
12.55	W	PIO	7.5	
12.5 5 1:15	11	14CN	00	
		Review	/	
Sampler:	itall	Signature:	1/	Date: 5-2-01
Manager/F	oreman:	Signature		Date:
		-		· • •

Page <u>2</u> of <u>2</u>

	S	ITE MONITORIN	G RESULTS	
Time	Monitoring Location	Instrument (Passport, PID, etc.)	Instrument Reading, with units	Comments
1:25	Daywind	Persont	20.9 92	
11 25	ď	AD	9.2	
2:30		PDD	5.2	
230		Passport	20.402	
3:15		PID	4.6	
3:6		Passport	20.6	·
3:45		PTO	2.1	
3:45		Passport	20.6	
				
Sampler:		Review Signature		Date:
Sampler:	fell	Kar States	1	5-2-01
Manager/F	oreman:	Signature		Date:

Page \perp of 2

Site:			Sampler:	
AC:	ACJ RJ Futrell		11.	
Date:			Description of Activ	
5-3	3-01			
		HE MONITORI	HO DECLUTO	
7:		ITE MONITORI		O
Time	Monitoring Location	Instrument (Passport,	Instrument Reading,	Comments
		PID, etc.)	with units	
2:20	South side of Pole	Parapat	20.8	
8:25	e. O	FID	0.0	
8:40	it	Drager	290	VC
9:15	l(Drager	L5.00	V
9:15	Downwood	Pagent	20.8	
9:35	, (PIP	0.0	
10:15	\tag{t}	PID	123	
10:30	L	Passont	20.8 02	:
11:00	1'	RID	1.9	
11:20	У	PIP	9.4	
11:40	et	Passent	20.8 0.2	
12:45	ų	PID	198-	
1:15	i/	PIO	49	
1:25	ll	HCN	U-0	
230	и	Parsont	20.8	
2:45	ε,	RD	6.2	
		Revie	w	
Sampler:	•	Signature)	<u> </u>	Date:
KJ Fu Manager/F	JTeV	Signature /	t of	S-3-0(Date:
Malay	WOLLR	Mitchen	M	5-3-01

Page <u>2</u> of <u>2</u>

SITE MONITORING RESULTS				
Time	Monitoring Location	Instrument (Passport, PID, etc.)	Instrument Reading, with units	Comments
3,20	-(1	Passport	20.8 02	
4:00	U	PTP		
II	Dumpster	Rad Monitor	0.0	
	· · · · · · · · · · · · · · · · · · ·			
				
	· · · · · · · · · · · · · · · · · · ·			
Review Sampler: Signature: 0 Date:				
RJ Futrell		Signature: 1		5-3-01
Manager/Fo	oreman:	Signature		Date:

Page__l_of___2

Site:			Sampler:		
AC5			RJ Futrell		
Date:			Description of Activities:		
5-4-01					
	S	TE MONITORI	NG RESULTS		
Time	Monitoring Location	Instrument (Passport, PID, etc.)	Instrument Reading, with units	Comments	
8:30	Sandling Dues	PID	0.0		
8:40	100	Passport	20.8 02		
9:00	(1	1/1	O.O LEL		
9:20	1 4	PID	0.0		
9:40	11	PTD	2.4		
10:15	11	Passport	20.802		
10:20	ıı	Passport	O LEL		
11:30	Octside Jence	PFD	0.0		
1:00	11 Anonum	Passort	20.3		
2:00	" Downwing!	1/	O LEL		
3:00	" Damarel	PID	0.0		
4:00	l _i	HCN	000		
		Revie	ew		
Sampler: RJ Futre 11		Signaturer	lit	Date: 5-4-01	
Manager/Føreman:		Signatura	Date: 5-4-0		

Page <u>1</u> of <u>2</u>

		Sampler:		
25		RJ Futrell		
		Description of Activities:		
7-01				
S	ITE MONITORII	NG RESULTS		
Monitoring Location	Instrument (Passport, PID, etc.)	Instrument Reading, with units	Comments	
Moving druns	PID	0.0		
٨,	Passent	20.4		
1,	1.,	O LEL		
<i>\\</i>	PID	0.0		
Downwind of lide	PID	3.1		
11	Passport	O LEL		
iç	HCN	000		
V	Drager	<.200	Benjene	
11	ιγ	<.300	VC	
1,	1/	< 5.0	V	
	PID	7.6		
μ.	Passport	20.2	ļ	
11	Drager	<,200	Banzens	
(/u	2.300	VE	
Ч	ll ·	<5.00	T	
b .	PID	2.4		
Review				
Sampler:		Date: 5-7-01		
Manager/Foreman: M. HANDLER		Date: 5-7-01		
	Monitoring Location Moring draws II II II II II II II II II	SITE MONITORII Monitoring Location Monitoring Location Moning dums PID Passport PID Passport PID Passport PID Passport PID PID PID PID PID PID PID PI	Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active Description of Active	

Page 2 of 2

CITE MONITORING RECLIETS					
SITE MONITORING RESULTS					
Time	Monitoring Location	Instrument (Passport,	Instrument Reading,	Comments	
	Location	PID, etc.)	with units		
10:45	.(PID	1.4		
10:45	U	Passant	201 02		
11:00	ťi	HCN	000	-	
4:00	IC.	Drawn	< 300	B	
11:70	ا ر	10	4.300	Vc	
11:20	vl	V	L5.00	F. 7	
11:30	\ u	Passport	20. 2 02		
11:40	u·	RIO	20. 7		
11:45	u	Passport	O LEL		
12:30	u	(1	20.302		
12:45	Exply drus	Rodiation	0		
1:20	Downweld digging	PIP	8.3		
1:20	v O W d	Passport	003		
1:30	۲(Drager	<,200	B	
1:40	΄ (¢	V u	4.30D	VC	
1:50	((, ,,	₹5.00	V	
200	Lt.	PID	2.1		
215	M	Pasopat	20.402		
3:30	By Rolloffs	PID	0.0		
Review					
Sampler:		Signature:		Date: 5 - 7 - 01	
Manager/Foreman:		Signature /		Date:	
M. HAM	DLEIL	711/1Han/	vu)	5-7-0	

Page \perp of 2

					
Site:			Sampler:		
AC5			RJ Futrell		
Date:			Description of Activities:		
5-8-01					
·					
		TE MONITORIN	G RESULTS		
Time	Monitoring Location	Instrument (Passport, PID, etc.)	Instrument Reading, with units	Comments	
2:00	Somple Drumo	PTO	0.0		
8:20	1/	Passport	20.6 02		
8:45	1,	HĆN	000		
9:00	1,	Persport	O LEL		
9:20	1/	PID	0.0		
9:40	1/	Passport	20.4 02		
10:00	11	HCN	000		
10:15	,,	PID	0.0		
10:30	11	Pessont	O.C LEL		
11:00	Started remaining dune	Dogen	>10.	Benne	
11:10	Davnerind	O _{ct}	4.300	VC	
11:20	v	(1	< 5.00	T	
11:25	'1	PID	4.1		
12:00	(′	Passpat	do.4 02		
[:00	(*	Drager	4.200	B	
1.15	((Vu	4,300	VC	
		Reviev	V		
Sampler:	trell	Signatule:	\mathcal{J}	Date: 5-8-01	
Manager/Foreman: MAUREST HANOLER		Signature	adh	Date: 5-8-0	

Page <u>2</u> of <u>2</u>

SITE MONITORING RESULTS				
Time				Comments
Time	Monitoring Location	Instrument (Passport,	Instrument Reading,	Comments
	Location	PID, etc.)	with units	
1:30	į į	Dage	LS.00	1
2.00	[1	Passart	20.6	
2:15	l(PID	16.2	
2:20	Cŧ	14CN	000	
2:20	(/	Drager	<.200	B
2.30	l(Ou	< 300	VC
2:40	ĸ	h((5.00	T
3:15	11	PID	2.1	
2:45	1/	Passport	20.4 02	
4:00	Enpty Drung	Rodiation	00	
4:20	Downing	Persoport	OO LEL	
· · · · · · · · · · · · · · · · · · ·				
		Review	1	•
Sampler:		Signature:	H)	Date:
RJ Futrell Manager/Foreman;		Signature		5 - 8 - 01 Date:
11/am	Handle	Signature M. Harrou	er	Date: 5-%-0

Site: Sampler:					
ACS	>	·	RJ Futrell		
Date:			Description of Activ	ities:	
5-9	1-01			ŕ	
		TE MONTOD!	NO DECLUTO		
		TE MONITORI		0	
Time	Monitoring Location	Instrument (Passport,	Instrument Reading,	Comments	
	Location	PID, etc.)	with units		
7:45	Sorpling Duns	PID	0		
8:15	1 0,	Passport	20.6 02		
8:30	10	HCN	000		
8:45	10	PID	0		
9:00	(1	Passont	Drer		
9:30	Stated Drum Remova	1 Drager	1300	Benzens	
9:40	Downwing	.0	1.43 4	VE	
9:50	Ч	10		Y	
9:50	(1	PID	4.1		
10:05	((Passport	20,302		
i0:20	C1	PTD	19.4		
10:20	į,	Passport	O LEL		
11:00	ν	Drago	. 960	B	
11:10	1/	04.	< .300	VC	
11:20	l.	l'	< 5.00	T	
13.30	ιţ	LPID	15.5		
Review					
Sampler:	tell	Signature:		Date: 5 - 9 - 01	
Manager/		Signature	11 11	Date:	

	S	ITE MONITORIN	G RESULTS	
Time	Monitoring Location	Instrument (Passport, PID, etc.)	Instrument Reading, with units	Comments
11:30	((HCN	COO	/
11:35	4	Passant	Q LEL	
12:00	40	PID	1:7	
12:45	(C	Passont	20,802	
1:30	Į¢.	Drager	.530	B
1:45	٠(4	<.300	VC
2:00	11	(1	(5.00	T
2:10	l.	PID	11.1	
3.00	11	Passport	O LEL	
3:30	Enpty duns By an Bottles By Roll offs	Rodiation	0	
4:00	By an Battles	Passport	20.8	
4:20	By Rolloffs	PIO	0	
··-				
		Review	1	
Sampler:	well	Signature:		Date: 5-9-01
Manager/	oreman:	Signature	. 11	Date: 5-9-0(

Page I of 2

Site:			Sampler:		
AC:	2		RJ Futi		
Date:			Description of Activ		
5-10)-01				
	SI	TE MONITORIN	G RESULTS		
Time	Monitoring Location	Instrument (Passport, PID, etc.)	Instrument Reading, with units	Comments	
7:00	Walked over Zone	PID	0.0	Cleared Zone	
7:30	Souph duns	Parsport	20.6		
830	((PTD.	0.0		
9:30	(1	14C N	000		
10:00		PID	00		
10:15	Downwid of Ide	PIO	2.2		
10.30	ı. U	HCN	000		
11:00	40	Drager	<.200	Benzene	
11:10	ι(41	.740	Vc	
11:20	(4	1'	(5.00	T	
11:30	11	PID	7.8		
12:00	1(PID	1.1		
1:00	Ŋ	Drager	4.200	Buzene	
1:10	<u>(/</u>	∀ ,	(.300	VE.	
1:20	11	1,	< 5.00	T	
1:45	j t	Passont	20.802		
		Review	v		
Sampler:	wtre/	Signature:	<i>tJ</i>	Date: 5 -10-01	
Manager/Foreman:		Signature	$\mathcal{A}U$	Date:	

	SITE MONITORING RESULTS				
Time	Monitoring Location	Instrument (Passport, PID, etc.)	Instrument Reading, with units	Comments	
2:30	By Enpty drums	Radiation	00		
2:45	By overpaka	PID	0.0		
3:45	By Note	PID	0.0		
4:30	U II	Passport	20.8°2 0.0 LEL		
4.30	17	11	0.0 LEL		
		·			
Sampler		Review Signature: // /	2 2	Date:	
RJ Fu	trell	KATILLE	U_{-}	5-10-01	
Manager/Fo	oreman: NOVER	Signature	_dL	Date: 5-16-01	

Page_/_ of _2

Site: Sampler:				
AC	25		RJFutsel	/
Date:			Description of Activ	
5-1	11-01			
		TE MONITORIN	C DECLUTE	
Time	Monitoring	TE MONITORIN Instrument	Instrument	Comments
1	Location	(Passport, PID, etc.)	Reading, with units	Onimicino
8:20	Sample drus	PLD	0.0	
8:40	1 (6	Passpat	20.8	
9:00	U	· '	O LEL	-
9:30	Bypit	PID	14.2	
10:30	0 1,,	Drage	<.200	Benzen
10:45	tr ·	011	,610	VC
11:00	÷((((5.00	V
11:05	t _i	PID	9.0	
11:20	11	HCN	000	
12:00	11	Passont	20.602	
12:15	ι,	Dager	1,200	Benzene
12:30	(·	10	<.300	VE
12:45	٦	(1	< 5.00	T
1:30	(/	PID	1.9	
1:40		Passport	30.802	
2:00	By Fence downers	PED	8.6	
Review				
Sampler:	ited	Signature:	ull'	Date: 5-11-01
Manager/F	oremen:	Signature	Nen	Date: 5 ~ ((- a

	SITE MONITORING RESULTS				
Time	Monitoring Location	Instrument (Passport, PID, etc.)	Instrument Reading, with units	Comments	
2:05	Oswaniel	IdCN	000		
2:45	Empty drumo	14 CN Radiation	00		
	1 '0				
<u> </u>					
-					
			·		
·					
			_		
		Review			
Sampler: RJFw	L il	Signature:		Date: 5-11-01	
Manager/F	oreman:	Signature //		Date:	
11 (40	<u>malln</u>	11 Allendo	<u> </u>	5-11-01	

Site: Sampler:					
AC5			RJFutre11		
Date:		C	escription of Activ	rities:	
5-	16-01				
	SI	TE MONITORIN	G RESULTS		
Time	Monitoring Location	Instrument (Passport, PID, etc.)	Instrument Reading, with units	Comments	
i0:00	Startel digging	PID	0.0		
10:30	at hole	PID	27.6		
10:30	и	Passport	20.3		
10:40	•(Drager	4.200	Benjene	
10:50	tr	Uı	<.300	VE	
11:00	į (1'	(5.00	T	
11:00	c(PID	3.0		
ii:30	((HCN	000		
11:35	U	Passport	O.O LEL		
1,00 <u>0</u>	11	PID	14.3		
1.10	1 ,	passent	00.1°		
/ 1	1	111	0 %	LEL	
130	11	P10	$(0,0)^{-1}$		
1,45	ч	pss port	20.6		
2:00	LI	HCN	000	j	
2:30	1	PIP	0.0		
		Review	/		
	utell	Signature:	W.	Date: 5-16-01	
Manager/F	foreman://	Signatule	Yandle	Date: 5-16-01	

		SITE MONITORIN	G RESULTS	
Time	Monitoring Location	Instrument (Passport, PID, etc.)	Instrument Reading, with units	Comments
3:00	v	Drages	C. 200	Benzene
3:15	le	Vic	1.34	VC
3:25	C1	и	4500	7
3:35	И	PIO	3.5	
3:45	((Passent	30.9 02	
4:00	LI	NCN	000	
4:30	и	PID	0.0	
4:45	l'	Passpat	20.402	·
		/		
	_			
		Review	1	
Sampler:	tell	Signature:	1-11	Date:
Manager/Fo	reman:	Signature M		5-16-01 Date: 5-16-01
	dla	Mittan	de	5-16-01

Site:			Sampler:		
AC	25		RJ Futre//		
Date:			escription of Activ	vities:	
<i> </i>	17-01				
	1701				
	S	ITE MONITORIN	G RESULTS		
Time	Monitoring	Instrument	Instrument	Comments	
	Location	(Passport,	Reading,		
		PID, etc.)	with units		
8:15	at hole	Y+D	00		
8.30	· · ·	l ₁	13.4		
8:45	17	Passport	20.802		
8:45	i(Drages	<.200	Benjame	
8:55	и	0.,	<.300	ve	
9:65	tı	L e	25.00	Y	
10:00	L ₍	HCN	000		
10:30	ţ4	RID	16.5		
11:00	11	Drages	(200	B	
11:15	`(A	4.300	VC	
11:30	(1	11	(5.00	T	
11:30	14	Passport	00 LEL		
11:30	(r	PFD	16.8		
12:00	K	Passant	20.002		
1:10	٠,	PFO	7.2		
1:15	41	Diagra	2.200	B	
Review					
Sampler:	t- 11	Signature:	o D	Date:	
Manager/F	stre 11	Signature	Way -	5-17-01.	
MIL	1-10 - 1	Signature	NL	5-17-01	

SITE MONITORING RESULTS				
Time	Monitoring Location	Instrument (Passport, PID, etc.)	Instrument Reading, with units	Comments
1:30	at hole	Drages	2,300	VC
1:45	u	er ()	2.300 25.00	工
		,		
		Review		
Sampler:	+ 11	Signature:	-#.J	Date:
Manager/F	tsell oreman: ANDLER	Signature		5-17-01 Date:
	HNOLEK	11/ Conta	\mathcal{L}	5.17-01

Page 1 of 2

Complete						
Site:	1	5	Sampler:			
	CS		RJ Futre			
Date:		D	escription of Activ	ities:		
5-1	18-01					
				· · · · · · · · · · · · · · · · · · ·		
		TE MONITORING				
Time	Monitoring Location	Instrument (Passport,	Instrument Reading,	Comments		
	Location	PID, etc.)	with units			
7:30	Bu hole	PID	0.0			
2:00	O "	Passport	20.802			
8:10	ŧi	Drage	4.200	B		
8:20	(1	Ju	(,300	VC		
8:30	ι (<u>i</u> /	(5.00	7		
8:40	u	HCW	000			
9:15	((PIO	0.0			
9:45	fs.	Passont	OLEL			
10:00	11	PIO	30.0			
10:20	1'	Drage	(,200	B		
10:30	((11	,590	VC		
10:40	` u	u	(5.00	7		
11:5	(f	PID	13.8			
11:30	4	Passport	20.402			
11:45	ц	HCN	00	<i>#</i>		
11:55	(,	PIO	26.9			
	Review					
Sampler:	A-11	Signature:		Date: 5-13-01		
Manager/F	Mell, oreman:	Signature .		Date: 5-18-01		
Mitande Mulana			all	578-01		

Page 2 of 2.

	SI	TE MONITORING	G RESULTS	
Time	Monitoring Location	Instrument (Passport, PID, etc.)	Instrument Reading, with units	Comments
1:15	1,	PIO	38.6	·
1:20	4	Draign	-240	· B ·
1:30		Ui .	.790	VC
1-40	. (/	11	15.00	1
1:40	.1.	HEN	0.0	
1:50		Passport	d0.6	
2:15	и .	Passport	O LEL	
3:30	u	PID	0.0	
4:00	ι.	PIO	2.8	
4:30	t e	Rodistron	00	
		· · · · · · · · · · · · · · · · · ·		
			· · · · · · · · · · · · · · · · · · ·	•
	•	· · · · ·		
		· · · ·	•	
		•		
•	<u> </u>	Review		
Sampler:	ent rell	Signature	J	Date: 5 - 18 - 0 /
Manager/F	oreman:	Signature /	<u> </u>	Date: ラー18 - 0

Page___of______

Site:		(Sampler:		
, AC	.5		RJ Futel	1	
Date:		ſ	Description of Activities:		
50	21-01				
	S	ITE MONITORIN	IG RESULTS		
Time	Monitoring Location	Instrument (Passport, PID, etc.)	Instrument Reading, with units	Comments	
7:30	Edge of hole	PID	0.0		
3:00	14	Paisport	20.6		
10:00	1(Dage	<.200	B	
10:15	1(Vu	4.300	VC	
10:30	4	-1	<5.00	T	
11.00	r ₄	PIP	44.00		
11:15	V	Posspat	0.0 LEL		
11:45	11	Parient	20.1		
11:45	Lŧ	Drager	4.200		
12:00	11	1	4.300		
12:10	, (11	< 5.00		
1:30	11	PID	0.80		
2:15	ii .	Possport	O LEL		
2:45	1(u ¹	20.602		
3:30	()	HCN	00		
4:00	١,	PFO	18.6		
		Review	v		
Sampler:	wtroll	Signature:	M.	Date: 501	
Manager/F	oreman:	Signature	M_{\sim}	Date: 5-71.01	

SITE MONITORING RESULTS					
Time	Monitoring Location	Instrument (Passport, PID, etc.)	Instrument Reading, with units	Comments	
4:20	t r	Radiation	90		
4:20	/1	Passort	20.602		
·					
-					
		Review			
Sampler:	tre 11	Signature:		Date: 501-01	
Manager/Foreman:		Signature		Date: 5-21.01	

Page / of 2

Site:	^ <i>C</i>	S	Sampler:		
A	CS		RTTrosell		
Date:			escription of Activ	vities:	
- 5 -	22-01			·	
	S	ITE MONITORIN	C PESULTS		
Time	Monitoring	Instrument	Instrument	Comments	
1,,,,,,	Location	(Passport,	Reading,		
		PID, etc.)	with units		
7:00	around bale	ATD	00	11 0-4	
8:30	Runund	PID	42.4	Started removal of do	
8:50	()	Passport	20.8	U	
9:15	И	Drages	<.200	Bennen	
9:25	Ц	H	>10.0	VCO	
9:35	ر ۱	11	45.00	V	
9:40	ι.	Pasyport	20.702		
10:00	٤١	PI'D	23.7		
10.45	17	HCN	000		
11:00	lı	Drage	<.200	3	
11:15	ıl	i ()	<.300	VC	
11:30	ίι	e!	(5.00	V	
12:30	Λ	PID	31.8		
12:45	п	Passport	20.702		
12:55	11	,,1	O CEL		
1:00	f i	HCN			
		Review			
Sampler:		Signature:		Date:	
Manager/F		Signature /		Date:	
11/10/1/14	Willer.	Manten	5-22-01		

Page 2_ of 2_

Monitoring	ITE MONITORING		
Location	Instrument (Passport, PID, etc.)	Instrument Reading, with units	Comments
ı(PIO	28.9	
l(Passport	20.802	
tt ·	Passort	O LEL	
t (PIO	14.1	· · · · · · · · · · · · · · · · · · ·
1(Drager	< 200	Benzene
LI .	in J	<.300	ve
L1	l l	(5.00	T
U	Radiation	00	
i (PFO	9.1	
6 }	HCN	000	
	Pamport	J0.802	
<u>. </u>			
trell	Signature:	J.	Date: 5-22-01
reman:	Signature	dh	Date: 5-22-01
		PID, etc.) 11 12 13 14 15 16 17 18 19 19 19 19 19 19 10 11 11 11	PID, etc.) with units PID 28, 9 Review PID 28, 9 Review PID 28, 9 Review PID 28, 9 Review PID 28, 9 Review Signature: PID 28, 9 Review Signature: PID 28, 9 Review Signature: PID 28, 9 Review Signature: PID 20, 8 Review

Page / of 2

Site: Sampler:					
AC5			RJ Futrell		
Date: Description of Activities:					
5.	23-01				
		ITE MONITORIN	O RECULTO		
Time		ITE MONITORIN	Instrument	Comments	
Time	Monitoring Location	Instrument (Passport, PID, etc.)	Reading, with units	Comments	
7:00	around hale	PJD	0.0		
8:00	f (п	15.1	States removed of du	
3:30	tı .	Passport	20.702	U	
8.30	U	Drager	2.200	B	
8:40	((.(/	(.300	VC	
8:50	1(Į:	55.00	Y	
9:00	•	PID	17.1		
10:00	1 '	Pasport	20.802		
10:30	1 (/	O LEL		
11:00	11	HCN	000		
11:30	11	PID	1,3		
12:30	, ,	Dage	<.200	B	
12:40	(,	i l	2.300	VC	
12:50	· ·	ч	<5.00	T	
1:00	i I	HCN	000		
1:45	17	PID	12.6		
		Review	<u>′</u>		
Sampler:	trell	Signature)	<u> </u>	Date: 5-23-01	
Manager/Fi	oreman: ANDLED	Signature	M	Date: 5.7.3.0/	

Page___ of ___

SITE MONITORING RESULTS					
Time	Monitoring Location	Instrument (Passport, PID, etc.)	Instrument Reading, with units	Comments	
2:30	10	Passort	20.602		
2:45	11	Droger	2.200	B	
2:55	t/	1	<.300	VC	
3:10	ч	и	15.00	T	
3:30	i t	Rodintini	000		
4:00	<i>(</i>	PID	1.8		
4:45	L (Passent	0.0 LEL		
		/			
	·····				
		Review			
Sampler:	wirell	Signature:	th	Date: 5-23-01	
Manager/Fo		Signature	Date: 5-23-07		

Drum Removal Activities – Air Monitoring Logs from the Perimeter of the Exclusion Zone (MWH)

Montgomen, Watson KOESTER ENVIRONMENTAL SERVICES DAILY AIR MONITORING FORM

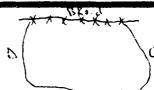
Page / of /

Site: Ac	5 Chemical Dr	um Removal	Sampler: MaH	Grostick
Date: 04	Date: 04/27/01			vities:
			Drum excavati	ion
1	S	ITE MONITOR	NG RESULTS	
Time	Monitoring	Instrument	Instrument	Comments
	Location	(Passport,	Reading,	
 		PID, etc.)	with units	
0845	A	HNU-FID	1.5 ppm	
	В		o.oppn	
	L		0.0 ppm	
	p	+	a.oppm	VC-1.07pm Bonzene-outpr
1105	A		5.0 ppm	Extended zone near tank form to prevent entrance
	В		d.oppm	
	C		a.o ppm	
	D		o.eppm	
1415	Α		3.0 ppm	
: 	В		0.0 ppm	
	Ć		0.cppm	
	Ь		c.oppn	
1630	A		7.0 ppm	
	B		e o ppm	
	ζ		Coppm	
	0	\	0.0 ffm	
		Revie	W	
Sampler:	latt Grostick	Signature:	Natt Mass	Date: 04/27/01
Manager/Foreman:		Signature		Date:

Montgonery Watson KESTER ENVIRONMENTAL SERVICES DAILY AIR MONITORING FORM

Page of

Site: ACS Chemical - Drum		Removal	Sampler:		
			Matt Grostick		
Date: 04	130101	Description of Activity			
			Drum Remova	11	
		ITE MONITOR			
Time	Monitoring Location	Instrument (Passport,	Instrument Reading,	Comments	
		PID, etc.)	with units		
A00	٨	HNU PID	o io bbu		
	В		O.O PPM		
	С		0.0 ppm		
	8		0.0 blw		
1000	٨		oppp		
	В		1.09pm	next to fence	
	с		0.0ppm		
	Ь		o.oppn		
i315	Α		0.5ppm		
	В		6.000	Next to fence	
	C		0.0 ppm		
	δ		o.oftin		
1635	A		0,679.0		
	B		2.0 pp. 0.4 pp.	o.4 acress food	
	С		0.7 pp.~		
	D	*	0.0ppm		
		Revie			
Sampler: Matt Grostick		Signature:	11 July	Date:	
Manager/F		Signature		<u> </u>	
1-1 1 11 1					





Date: 05/01/01

BURIED DRUM REMOVAL

Sampled By: Matt Grestick



SITE MONITORING RESULTS

083c	Α	HNU	PID	0.0 ppm	
	ß			0.0 ppm	
				O. Oppm	
	Δ			O.Oppin	
1130	A			0.000	
	В			O.4ppm	at fence
				0.0ppm	ļ
	D			0.0ppm	
1305	Α		L	O copin	
	B			2.0 pp.m	at ferce
				0.5 pp.m	
				0.000	
1345	В	Druss	KINU PID	VC+Benzere O.C	apm collected at fence
1515	A		Hun LIP	0.0 pp.n	
	B			O. O. pp.m	at fence
	C	L		O.Cppm O.Cppm	
	D	+		O. Oppm	



Date: 05/02/01

ACS RA Grillith IN

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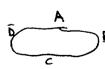
BURIED DRUM REMOVAL

Sampled By: Matt Grostick

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SITE MONITORING RESULTS

	ing the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s			
0800	A	HNU PID	O.O PPM	
	В		0.0 ppm	
	<u> </u>		0.0 ppm	
	٥		0.0ppm	
1035	Α		0.0ppm	
	В		1. oppm	
			0.0ppm	
	0		O.O.ppm	
1305	A		0.0 ppm	
	В		1,2 ppm	
	c		1,0 ppm	
	Δ		0.08PM	
1530	Α		0.0 ppm	
	B		1.3 pp.m	
	ے		0.4 ppm	
	4		c.opp.m	
Fire Pond Read	ings			
В	A		0.3 ppm	
	В		1.5 ppm	
			1.5ppm 0.0ppm	
	Ь	+	1.3 bbw 2b.	kesupto 5 ppm





Date:	05/03/01	Page \ c	of
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BURIED DRUM REMOVAL

Sampled By:	Matt	Grostick		
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SITE MONITORING RESULTS A dig vuh 0.0 ppm 1330 B 0.5 ppm 0.0pp~ D 1450 A 0.0 ppm Spires of 8.0 ppm В 1. & ppin 0,1 ppm Oloppin



BURIED DRUM REMOVAL

Sampled By: Matt Grostick

	S	ITE M	IONIT	ORING	RE	SULTS	
To the second							
0900	A		HNU	419		0.8 ppm	
	В	,,		<u> </u>		O, & ppm	
	С			1		1.0ppm	
	0	 -				0.dppm	
1055	A					0.9 ppm	
	B					0.1 ppm	
	<u> </u>			ļ 	-	0.3ppm	
	<u> </u>			}		O. & ppm	
1105	Fire Pond		,	ł		7:3	- vida
						0.4	Sp. kes
	_		· · · · · · · · · · · · · · · · · · ·		^ %		0.5 3.0
		 			0.00)	 /
	 					M-45.3	TIUPPM
					$-\downarrow$	c.3ppm	
	 						
Nó) Drume		N 00	ove d			
1 70	1 Diane						+,
KES Pe	formed p	zirim	eter	MONITO	بمنتد	o.uppm	cution A+C
1130 1300 MCG			W:7: K	HE YIC	-	0.oppn	
1500					-+		
IN CO MIG	 				+		
15 60	+		+		+	o.cppm	
1602-MCG	 		A		+		
500 (ollect		 -					



Date: 05 107101	Page of
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BURIED DRUM REMOVAL

Sampled By: Matt Grostick

SITE MONITORING RESULTS

0800	Α	HNU PID	0.0ppm	
	В		0.0ppm 0.0ppm 0.0ppm 0.0ppm 1.3 ppm 0.0ppm	
			O.Oppm	
	۵,		0.0ppm	
1000	A		2,2 ppm	
	P S		1.3 ppm	
	C		0.0 pp.~	
	4		D.4PPM	
1325	<u> </u>	 	o.oppm o.oppm o.oppm o.oppm o.oppm o.oppm o.oppm o.oppm	
	В		0.6pp.n	
	<u>c</u>		0,0000	
	4		0.000	
1600	Α		o. oppin	
	В		Ó, CPPM	
			0.0700	
	D		0.0000	



Sampled By: Matt Grostick

DAILY AIR MONITORING FORM ACS RA Griffith IN.

Date: 05/08/01	Page of
BURIED DRUM REMOVAL	

SITE MONITORING RESULTS

0730	Α	HNUPID	0.000	
	В		0.0 ppm 0.0 ppm 0.0 ppm	
	С		0.0 ppm	
	٥		O. oppm	
1050	Α		U.Oppm	
	В		0.0 ppm 0.0 ppm	
	C		O. Oppm	
	۵		O, Oppm	
1215	Α		0.0 ppm 0.0 ppm 0.0 ppm	
	В		0.0 pm	
	<u>C</u>		0.0 ppm	
	[0.0 ppm	
1330	Α		O.O ppm	
	В		0.0 ppm	
	C		0.0 ppm 0.0 ppm 0.0 ppm	
	D	4	0.0 ppm	
÷				
				· · · · · · · · · · · · · · · · · · ·



Date: c5/	09	o i	Page of
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BURIED DRUM REMOVAL

Sampled By: Matt Grost	ck
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SITE MONITORING RESULTS PID breken waiting for replacement



Sampled By: Matt Grostick

DAILY AIR MONITORING FORM ACS RA Griffith IN.

Date: 05/10/01	Page 1 of 1
BURIED DRUM REMOVAL	

SITE MONITORING RESULTS Mini RAE 0900 Α O.Oppm B O, O PPIA **C** Oroppin D 0.0ppm 1015 0.3 ppm B 0.0 ppin 0.0 ppm ٥ O.Oppm 1400 0.0000 0.0ppM O.Cpp.m D 0.0000 1540 A 0,0 ppin В DIC DEM L O.Oppin D 0.0000



Date: 05/11/01	Page of \
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BURIED DRUM REMOVAL

Sampled By: Matt Grostick

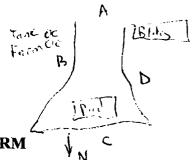
SITE MONITORING RESULTS Mini RAE A 0900 0.0 AP.m 0.00pm B 0.0 ppm 4 O.Oppm Photo Vac A 0.9 ppm 0905 В O.Oppm 0,2 ppm O.4ppm PhotoVac 0,4 ppin 1350 B C.CppM 1.3 ppin \mathcal{D} O.Oppm



Date: 05 /14/01	Page of \
BURIED DRUM REMOVAL	
Sampled By: Matt Grostick	

SITE MONITORING RESULTS Passport PID 0730 A G. O PPM 0.000 B O. Oppor Р O.Oppm A 1015 O.O PPIN B O.oppm C OLOPPIN 7 0.0ppm A 0.8 ppm 1356 B 0,0ppm O.CPPM D C, Oppm 1515 A O.Oppm O. Oppm B C.OPPM 0.oppm D





Date: 05/16/01

Page_iof\

BURIED DRUM REMOVAL

Sampled By: Matt Grostick

SITE MONITORING RESULTS

	and the substant			
1630	٨	PID PID	0.0 ppm	A und D
	Ŗ		0.0 ppm	spike of 4.1 ppm and 4.2 ppm at 1045.
			c.o ppm	and 4.2 ppin
	0		0.0 ppm	at 1045.
1305	Λ		0.0 ppm	
	В		0.0 ppm	
	(0.0 ppm	
	<u> </u>		0.0 ppm	
1500	A		0.0 ppm	
	E		O.O ppm	
	<u> </u>		c.o pem	
	<u> </u>		C c ppm	
1 ije	A		0.0 pp.m 0.0 pp.m	
	<u> </u>		مرم عان	
	<u> </u>		O'C bbw	
	D			
<u></u>			···-	
				
				
				
			<u> </u>	
l				



Date: 05/17/01	Page (of (
BURIED DRUM REMOVAL	
Sampled By: Math Grostick	

SITE MONITORING RESULTS Photonic PID 0805 0.0 ppr 0,0ppm a open 4 0.0ppm 1230 0.0 PP.M B 0.0ppm C 0.0ppm 2,2 ppm Ø A O.Oppm 1400 В O,Oppm O.Oppin O,4 ppm b



Date:	5/	18/	ol
	- 1		

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BURIED DRUM REMOVAL

Sampled By: Alex Ellwood

SITE MONITORING RESULTS

	and the second second			
0715	A	Photo Vac PID	a.a opn	
	В	1	0,0 ppm 0,0 ppm 0,0 ppm 0,0 ppm 0,0 ppm 0,0 ppm 0,0 ppm 0,0 ppm 0,0 ppm 0,0 ppm 0,0 ppm 0,0 ppm 0,0 ppm 0,0 ppm 0,0 ppm 0,0 ppm 0,0 ppm 0,0 ppm 0,0 ppm	
	C		O & ppm	
	D		0,000	
1030	A		0.0 ppm	
	В		0.0 ppm	
	C		0.0 ppm	
	D A		OLO POM	
1255	A		0.0 ppm	
	В		O.O ppm	
	(O.O ppM	
	D		Ow ppm	
1400	A		13.1 ppm	
	В		O.U ppm	
	C		O.O ppm	
	D		0.0 ppm	
1600	A		0.0 ppm	
	В		O.O ppm	
	L		0.0 ppm	
	D	♥	O.U ppm	



Date: 05 / 21/01 Page 1 o	f	<u> </u>
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BURIED DRUM REMOVAL

Sampled By: Matt Grestick

SITE MONITORING RESULTS Photovac PID 1000 O. Oppm B O.O ppm 0.0 ppm Moved exclusion zone 4 6.5ppm O.OPPIN 1143 A B COPPM 0.0 ppm 1 2.8ppm A 1645 0.0 ppm Oil ppin C CLOPPIA D. 1.2 ppm



Date: 05/22/01	Page 1 of 1
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BURIED DRUM REMOVAL

Sampled By: Math Grostick

SITE MONITORING RESULTS Photovac PID 0130 O.Oppm B O.Oppm L OLO DAW N 0.0ppin A O. Oppm 1130 B 0.0 ppm Ć O.Oppm Q 0.0ppm Α 1315 0.0ppm B OLONDIN OLOPPM Ø O. Oppin A 1500 O. Oppm B O. Oppin L O.Oppm a O. Oppm



DAILY AIR MONITORING FORM ACS RA Griffith IN.

Date: 05/23/01	Page 1 of 1
BURIED DRUM REMOVAL	
Sampled By: Matt Grostick	

SITE MONITORING RESULTS

A	Photovac PID		
B		· .	
C		0.0pm	
D		0.0ppm	
A		0.0 ppm	
C		0.0 ppm	
Δ		O.Oppm	
A		0.000	
В		1	
C			
۵		O.Oppm	
Α		0.000	
3			
۷		O.O.Pm	
4		O.OPPM	
	B C D A B C D A B C D A B C A B C A B C C C C C C C C C C C C	B C D D D D D D D D D D D D D D D D D D	B

Drum Disposal Activities – Air Monitoring Logs from Inside the Exclusion Zone (MEI)



Description of Site: Sunny Cool	Description of Site: . Sunny , Cool
AM:	PM: 5
Wind Direction: Speed: ≅ mph	Wind Direction: 5 W . Speed: \(\text{mph} \) \(5 \cdot \(\text{O} \)
Engineering Controls: PPE, air monitoring using H-Nue	Level of Protection: Level C and
<u> </u>	Level B when required.

Sampling Event No.	VOC (ppm)	C6H6 (ppm)	Vinyl Chloride (ppm)	Sampling Location / Work Zone
	BG =			Calibration/operation (H-Nue) and background for VC checked
Test	0-1	ND	ND	outside of site boundry.
01	0-2	NR	NR	: background sampling at NW corner On-Site Area.
02	0	NR	NR	Excavator work zone (upwind)
03	2-3	NR	NR	Work zone.
04	1-2	NR	NR	Reading (downwind) at edge of exclusion zone.
05	0	NR	NR	Excavator work zone (upwind) at excavation.
06	1-2	NR	NR	Work zone.
07	0	NR	NR	Reading (downwind) at edge of work zone.
			_	End personnel air monitoring.

(BG = background) (ND = none detected) (NR = none recorded)

Additional Notes:

Began in Level "B" and continued for all work phases in same, Will discuss using level "C" Are should readings remain low.

Signature:	Cen L	Date_Thursdow_11-8-01
) -	MEI Representative	<u> </u>



Description of Site: Gunny	Description of Site: . Or el cust then some min
AM: 42°	PM: 50°
Wind Direction: (Speed: ≅ mph 5	Wind Direction: W . Speed: ≅ mph 5 10
Engineering Controls: PPE, air monitoring using H-Nue	Level of Protection: Level C and
	Level B when required.

Sampling Event No.	VOC (ppm)	С6Н6 (ррш)	Vinyl Chloride (ppm)	Sampling Location / Work Zone
	BG=			Calibration/operation (H-Nue) and background for VC checked
Test	0-1	ND	ND	outside of site boundry.
01	0-1	NR	NR	: background sampling at NW corner On-Site Area.
02	2 MM	NR	NR	Excavator work zone (upwind) .
03	2-3	NR	NR	Work zone.
04	0	NR	NR	Reading (downwind) at edge of exclusion zone.
05	0	NR	NR	Excavator work zone (upwind) at excavation.
06		NR	NR	Work zone.
07	0-1	NR	NR	Reading (downwind) at edge of work zone.
-				End personnel air monitoring.

(BG - background) (ND - none detected) (NR - none recorded)

Additional Notes:

Minimal readings at all lanations. any "hits" were spikes and very quickly went down to zero.

Still utilized Level "B" when emptying containers and shearings leading into boxes & tarping.

Level "B" also used when pressure washing boxes.

Signature:	Date Friday	11-9-01
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Description of Site: Sunny	Description of Site: . Sunay Breeze
AM: 40°	PM: 2:00 55°
Wind Direction: South Speed: & mph 10	Wind Direction: S w . Speed: \(\text{mph} \) 10-15
Engineering Controls: PPE, air monitoring using H-Nuc	Level of Protection: Level C and
	Level B when required.

Sampling	VOC	С6Н6	Vinyl	
Event No.	(bbar)	(ppm)	Chloride (ppm)	Sampling Location / Work Zone
	BG =			Calibration/operation (H-Nue) and background for VC checked
Test	0-1	ND	ND	outside of site boundry.
01	250	NR	NR	: background sampling at NW corner On-Site Area.
02	1-5	NR	NR	Excavator work zone (upwind)
03	10-15*	NR	NR	Work zone.
04	10-15	NR	NR	Reading (downwind) at edge of exclusion zone.
05		NR	NR	Excavator work zone (upwind) at excavation.
06	10-15*	NR	NR	Work zone.
07	0-5	NR	NR	Reading (downwind) at edge of work zone. Fence
-		_		End personnel air monitoring.

(BG = background) (ND = none detected) (NR = none recorded)

Additional Notes:

* Level "B" work for all personnel in Hot Zone. Eterated spile readings all morning + early attention. Even had readings at force near road.

Level "C" after all sheared makinal was loaded and tapped.

Signature: MEI Representative	Date_ Monday 11-12-01
-------------------------------	-----------------------



Description of Site: Cunny Ereezy	Description of Site: Sanny Breezy
AM: 40°.	PM: 62°
Wind Direction: South Speed: \(\text{mph} \) 10-15	Wind Direction: Speed: Speed: mph 10
Engineering Controls: PPE, air monitoring using H-Nue	Level of Protection: Level C and
	Level B when required.

	Sampling Event No.	VOC (ppm)	C6H6 (ppm)	Vinyl Chloride (ppm)	Sampling Location / Work Zone
	~	BG=	ND	170	Calibration/operation (H-Nue) and background for VC checked
	Test	0-1	ND	ND	outside of site boundry.
7,70	01	0-2	NR	NR	background sampling at NW corner On-Site Area.
9:00	02	3-5	NR	NR	(Shear) Excavator work zone (upwind) but on pad
9:20	03	2-3	NR	NR	Work zone @ Rell-Off Box Interior
11:30	04	10-15	NR	NR	Reading (downwind) at edge of exclusion zone.
12:00	05	3-5	NR	NR	(Sheen) Excavator work zone (upwind) at excavation.
12:30	06	10-15	NR	NR	Work zone.
v 130	07	10-15	NR	NR	Reading (downwind) at edge of work zone.
	**				End personnel air monitoring.

(BG = background) (ND = none detected) (NR = none recorded)

Additional Notes:

Level "B" when emptying roll-offs of a min. Reduce to cover "c" when pressure working empties. Shearing in Level B + then brue "c" to load.

Signature: 12n Flo Date 11Psclay 11-13-01

MEI Representative

Hedresday

DAILY AIR MONITORING FORM ACS-NPL SITE Griffith IN

Date: 11-14-01	ACS-NIL SITE G	THILLI IN	Pageof
Site Activity: Drum	Sumpling @ Pac	1 -1 Shearing	
Sampled By: Lex F	rielo"		

TIME	MONITORING LOCATIONS	INSTRUMENT	INSTRUMENT READING	COMMENTS
¢:30	work zone	HNU	0-1	on pad
8 45	remptied rell-off	HNY	10:15	interior of be
4.00	outside is pad		0-1	Noth of pad
9-10	trailer	· · · · · · · · · · · · · · · · · · ·	U	
10:00	work zone	<u>',</u>	3 -5	on pad
10:10	1) E. corner upad		0-1	
10:11	N. Derimiteral and	· · · · · · · · · · · · · · · · · · ·	0-1	25 from Edge
10.12	N. per nely in part	,,	0-3	10' from edge
10:45	work zone	4	1-2	on pad
10:50	emptied idloffs	1,	5-10	interior of box
11.15	N perimeterat pud	C.	3-4	10 from idas
12:20	Trailer	<u>, , , , , , , , , , , , , , , , , , , </u>	0	near boxes
20_	Ni side of pad	·	4-5	downwind
1:30	5 siar of pad	···	<u> </u>	5' from pad
1:35	trailer			
1:40	emptied idl-offs	· .	1-2	
2-20	N. sieb of paid	٠,	5-7	70 from pad
2.25	E. side of pad		O	5' from pad

* will clean box in Level "B" until reading is below 5 - then Level "C"

MONTGOMERY WATSON CONSTRUCTORS, INC.

DAILY AIR MONITORING FORM

Jun. 3 kry Date: 11-15-01	ACS-NPL	SITE Griffith	Pageof	
Site Activity:	rum Processing	Releading,	Bex	Dycon
Sampled By:	Ken Field			
twind out et	South ~ 10 mph			

	SITE MONITORING RESULTS							
TIME	MONITORING LOCATIONS	INSTRUMENT	INSTRUMENT READING	COMMENTS				
7:30	A	HNU	0-2	after 1st Box Dump				
	B	11	0					
	C	10	0					
7:45	D	t _i	0					
8.30	ΑΑ	<u> </u>	2-3	after 2nd box Dog				
	<u> </u>	1 .	0-1	15T emply stayed				
	C			,				
8 45			0					
	ε		C Interior					
10:00	A		2-3/5	periate states				
	B		0-1					
	ن		ζ,					
	10	1	C					
10.15	€		С					
11:30	A		3 ~ 4'	at pad edge				
	B		/ - -2	maci Simp				
100	A		6-7 sakes					
	<u>B</u>		1-2					
	Ċ		<i>C</i>					
	D		1					
	Ē		1-2					
2:60	A		.2 -3					
3 00			2					



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Date: 1-16	Page of				
Site Activity:	Drum Shearing	Loading 1	BURCH	Dacon	
Sampled By:_	Kin Field				
× wide	t of the him				

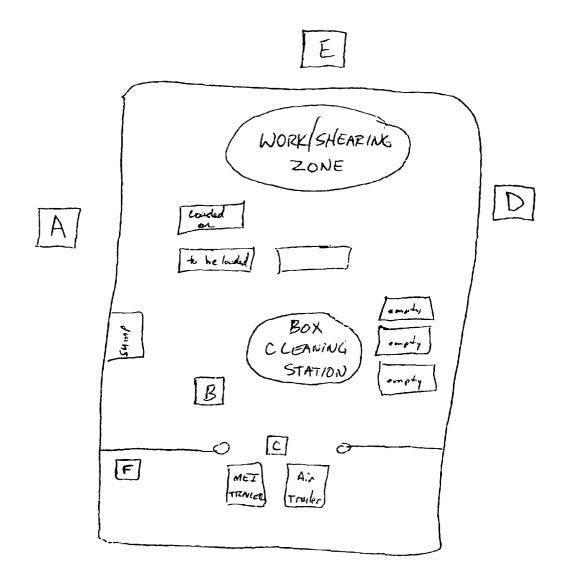
TIME	MONITORING LOCATIONS	INSTRUMENT	INSTRUMENT READING	COMMENTS
7-15	A	HNU	2-3	
	<u> </u>		O	
			<i>C</i>	
<u> </u>	<u>}</u>	· · · · · · · · · · · · · · · · · · ·	c	
7:30			<u> </u>	
8:45	A		1	
	B		8	
	Ċ		0	
	D		3	
9:00			<u> </u>	
10.00	A		C	
<u> </u>	£		C	
	<u>ٿ</u>		0	
· -);		2.3	
	<u> </u>		2-3	
10:25	F		25-35	1 Dium w/ High V
				immediate lide
12.20	D		7.0	
	E		3:3	
1-20	<u> </u>		3.35	15 000 vage
1.25	ć		1.2	i ped idas
2420	bb	<u> </u>	A-3	



Mon.]			CORING FO C Griffith IN	RM		
Date: 11-19-01		1100112	2 01			Page_	<u>/</u> of_/
Site Activity:	Final	shearing / lo	rading.	of drums.	Presure	woshing	of pas
Sampled By:	Ken	Field					
y winne	1 out	of N.W.	~ /	- 5 mph.			

	SITE N	ONITORING F	RESULTS		
11/17/13	-3/(0)3/(()6)(3/5/(c)	ion reinizio		(
: 30	c/B	MNU	0		
- !	Α	11	0		
	E	**	0		1
:40	D	1,	0-2	Level " for shop,	ring/low
		 		and scraping *	
: 30	E	HNU	0-2	11	
	D	11	0-2	''	
	A	(4	0		
1:45	В				
. 90	A	HWU	0		
1	Ė		0		
<u> </u>	D	11	0-2		
.15	B				
2:30	D	HNY	0		Modeli
	Ē	1,104	0	 	Coul
	A	1,	0		to.
	g				wash
					pad
					Some
					to fire

* Stay in level "C" until all sheared material has been loaded and all bulk soil has been staraged a loaded.



Drum Disposal Activities – Air Monitoring Logs from the Perimeter of the Exclusion Zone (MWH)



Date: 11/8	01	ACS-IVI		IL G.		11	Page_/of_	1
Site Activity:	Drum	Disposal	-	Roil	off	Box	Material	
Sampled By:_	Travis	Klingfort	1					

MATTINITY AND AND AND AND AND AND AND AND AND AND	MONTE	DINICLE	INCEDITMENT	- INCIDIA CONT	COMMENTE
	LOCAT	IONS		READING .	
1115	Permeter	-all	Photovac 2020	0.3 ppm MEX	(downwind = East pen
1200	17	11	d	6.0 ppm	ND
1330	i,	"	11	1.2 ppm	(downwind = East pen ND Lownwind = SE per,
				-	
				 	
				-	
		1			



Date: 1//9	101	ACS-NPL SITE Grillia IN	Page 1 of 1
Site Activity:	Drum	Disposal	
Sampled By:_	Travis	Klingforth	

	SITE MONITORING RESULTS				
MONITORING	INSTRUMENT	INSTRUMENTA READING	COMMENTS:		
· Perimeter - all	Photovac rozo PID	0.0 ppm	Nothing noted		
. " "	.,	2.4-4.0pm 3	Down wind (exetside	8 e x:	
· 2 rolloff hoxes just	Ðij	2,0-4.0 ppm	Rest is 0.0 pm	_	
,		· becomes 0.0pm	30' downwind		
·2 closestralletts	PIU	O. oppn	B-1112, B-7/4		
Perineter-all	fip			ed on p	
., .,	· ·	0.3 pp (even down	(wid) after 2 baxes	e dump	
34 4	ot .	0.0pm "	white shearing	pad	
., .,		0.0 ppn	material is lordes	d into	
			well for closing	site for	
	LOCATIONS Perimoter - all 12 rolloff boxes just Loaded (open tops) 12 closed rolloffs Perimeter - all 11 ""	LOCATIONS Photovsc 2020 P1B Perimeter - all Photovsc 2020 P1B 2 rolloff boxes just D11 Lossed (open tops) 2 closed rolloffs P1D Perimeter - all P1D	LOCATIONS Perimeter - all Photovic 2020 P10 0.0 ppm 2.4-4.0 ppm 2.0-4.0 ppm Lordad (open tops) Next to hox down becomes 0.0 ppm Perimeter - all P10 0.0 ppm (even down 1. 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 1. 0.0 ppm (even down 1. 0.0 ppm (even down 1. 0.0 ppm (even down 1. 0.0 ppm (even down 1. 0.0 ppm (even down 1. 0.0 ppm (even down 1. 0.0 ppm (even down 1. 0.0 ppm (even down 1. 0.0 ppm (even down 1. 0.0 ppm (even down 1. 0.0 ppm (even down 1. 0.0 ppm (even down 1. 0.0 ppm (even down 1. 0.0 ppm (even down 1. 0.0 ppm (even down 1. 0.0 ppm (even down 1. 0.0 ppm (even down 1. 0.0 ppm (even down 1. 0.0 ppm (even down 1. 0.0 ppm (even down 1. 0.0 ppm (even down 1. 0.0 ppm (even down 1. 0.0 ppm (even down 1. 0.0 ppm	LOCATIONS Perimeter - all Photovse 2020 P10 0.0 ppm Nothing noted 1 11 12 2.4-4.0 ppm Down wind (extrice 2 rolloff boxes just D11 2.0-4.0 ppm Rest is 0.0 ppm Located (open tops) Next to box down not 1 closestabliffs P10 0.0 ppm B.1112, B-714 Perimeter - all P10 0.0 ppm (even down not) of ther 2 bixes 1 1 0.0 ppm (even down not) of ther 2 bixes 1 0.0 ppm 11 while steering	



Date: 11/12/	ы	ACS-WE SHE Gillian	Page_/_of/
Site Activity: _	Drum	Disposal	
Sampled By:_	Thavis	Klingforth	

TIME	MONITORING LOCATIONS	1 INSTRUMENT	INSTRUMENT READING	COMMENTS
		~ Thomas Lois 11		wind out of south
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				Fint willy berty
1030	<i>"</i>		O. Ipper down	ind (North of pe
			aspor - rest	of permeter emptied
			(2nd Box beny	empted)
1130		M	O. Offin aron	I per neter except
			24-2.4 - 14.5 pp	along Nila of p
			(0.0 pm resolu	g slow Mside chain
1330			0,0 ppm arom	perineter
			except 2.2 pro	a rath of god
*>1.1.5			Ois at Front	T July
1412	.1		U. O PAIN GO TEL	(None pad) w/ 20
			2.6 pp.n downul	(Ning pad) w 20
			0.2-2.7 equ	people at grand no
1515	Ferinata-1211 excep	otele manist "	0.0 ppm	T-W - JANUERS
	North fence of Sid	. "	4,0-16,000	dona in 1 (N) 100
	Middle of sawly	<i>J</i> "	2-3 ppn W Nista	downwood (Not pa
ł	Piningle - Chief	+ se "1	00000	partie clear (end of day)
				salis clear
				(end of dry)
				//



Date: 11/13/0	<u> </u>	ACS-NPL SITE Griffith IN	Page of /
Site Activity:	Drum	Disposed	
Sampled By:	Travis	Klingforth	

Perinter (except de main) Phobis 2 2000 Copper Hebra beag in long N. Fence of Sile 11 0.3 pp. downwish (mid or 12 pp. March 104. N. of pal 13 formation (except demand) " Oc pp. March 104. N. of pal N. Fence of Sile 14 Oc pp. March 106. N. of pal N. Ang pal " 2.1 pp. 20° N. of pal N. of pal " O.B 10° N. of pal 1050 Freinath (except downish) " O.O Processing 2" bix N. fonce " O.O Processing 2" bix N. Fence " O.O Processing 2" bix N. of pal " O.Y-1.1 pp. 25° Not pp. 1230 Perinter (except downish) " O.O pp. Emptying 5" bix N. Of fonce " O.O " downwish (mid one) 1330 Firinath (except downish) " O.O pp. Emptying of 3" bix N. Of fonce " O.O " downwish (mid one) N. Of fonce " O.O " downwish (mid one) N. Of fonce " O.O " downwish (mid one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O.O " downwish (wind one) N. Of fonce " O	ELVIB	MONITORING LOCATIONS	100	READING		
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1230 ferinater (except divinary) " N. @ fence 1. O. O. III downwind (wind on a ferinater (except downwind) " N. @ fence 1. O. O. " N. of pad 1. O. O. " N. of pad 1. O. O. " 1. O. O. " 1. O. O. " 1. O. O. N. of pad		N. Fence			אינוטחנוט א	
330 firineter (except downwid) " 0.0 ppm Processing of 31th N. Ofence " 0.0" downwind I wind that N. of pad " 0.5" 20" N. of pad		N. of pril		0.4-1.1 pp	20' Molyed	ı
330 Firmeto (except downind) " 0.0 fpm Possessing of 31th N. @ fence " 0.0" downind (wid yell N. of pad " 0.5" 20' N. of pad	130	ferineter (except de	unuja	0.0 pm	Emplying 3 to but	
10.05 feet		N. Ofence			downwind (wind on	4 / 3
10.05 feet	330	Firmeter (except at	lownwind) "	0.0 pm	Processing of 31d	Bax
10.05 feet		N. C. fence		0,0	downing / wid ve	tol.
isso feringer-all " Disppin End of day-past dean rolloffe co		N. of pod	41	Q' 2 ,,	60 10. 37 year	
dean rolloffe co	515	Peringter - all		J. 5 ppin	End of day - po	1 re
					dean rolloffe a	-
					6.6	



Date: 11/14/21	Page / of /
Site Activity: Drum Di	Sposal
Sampled By: The vis K	ing forth

	MONITURING LOCATIONS		INSTRUMENT READING	
. 915	Perimeter (except down	wid) 11	0.0ppm	I shut gate to acc
	Downwind (N. of Pas	(Defence) "	ave 1.2 ppm	I shut gate to acc
	Ī	1	my periodic peaks	of 2.0-8.4ppm
· 412	Along Ms X road	D 11	0.0 PPIN	I Jan gut
-	Along No Sh mad			
1050	SVE soil cutting	PID	O. & Man	I' away
	SVE sailcutting (spoil pile area (form frepond)		10-70ppm	at discolored si
	Chime frepord			
1125	Perimeter (except due Downwind (window Just 20' N/NE of	anid	O.s ppm	
	Downwind (widow	+ x sw)	1.3 pm	
	Just 20' N/NE of	pad	3- Jacon	
	ALS N. Lance		0.011	
130,	Perimeter (eucept de	when !	0.0 ppn 0.3 ppn 5ppn w/ 10-13ppn	
	Downwid (wand out o	(S) oftenie	0.3 100	
	10 11. 472		Sppn w/ 10-13ppm	pealy
1430	Perimetri (excepted	ounuil) "	0.0 pm	
	DOWNWIND PACS	Fence (wind rity	5-7 pp. 10-20ppm graker	limitucions to im
	30' N. of pad	[Sall)	10-20ppm grake	
1530	Pernety-Uldires	Erois	0.0 ppn	Waris is close for
·	10, N. of beg		0.0	Pad in clean li



DAILY AIR MONITORING FORM ACS NPL SITE Griffith, Indiana

Date: 11/15	<u>/o/</u>			Page / of /
Site Activity: _	Drum Dispo	sal		
	Travis Klingt			
	SITE M	IONITORING RI	ESULTS	
TIME		INSTRUMENT		COMMENTS
. 830	Permiter- ell	11	0.0 ppm	wind out of south
0 3	10' N. of pad	11	0.0 ppm	Second load being de
.925	Perineter-all	•	0.3 "	wind out of south
	10' N. of pas	41	0.0 1.	Third land being pro
. 1120	Perinete-all	,1	0.5 "	kt 1
	(incl. Nitence)	1.	0.0 "	
. 1350	Perineter-all	4	0.0 %	bucz jo tho Kin
·—	10' N. of 10d	11	0.0 "	empty water drung
				being processed
: 154	· Perimeter-all (ex	apoldentin ind)	0.0	· eni of day (deb
	10' N. of part (done	wij "	ave. 7-12	secured pad)
	At N. Fence	.,	01-3ppm	wind out of saw empty nater drung being processed. · end of day (debut secured pad)
	 - 			
	+			
	1			



DAILY AIR MONITORING FORM ACS NPL SITE Griffith, Indiana

Date: ///16/	101			Page 1 of 1
Site Activity:	Drum Di	sposal		
Sampled By:	Tion VI			·
	SITE M	IONITORING RE	ESULTS	
TIME		INSTRUMENT Photour zoro	INSTRUMENT READING	COMMENTS
. 920	Perimeter-ellexcept	townuly PID	0.0 ppm	Processing last defris
	Downwind-just off		2-5ppr	windows of SW
1020	Perinety - except do	mind "	0.0 pp.n	Process debris
	Down bin birman of	of NW row)	12 w/ pecks of 30.9	toppm
<u>० १० ०</u>	9 upm of			- I've intermed follows
	Downing (und on	Morth "-	h / L	will keep everyone upind
			1000	
			40.0 gan	
			La port 40-800	m Transferday 262
·			Teach of	into remove and
				(Level C)
1140	Perineter - except	donne: PIU	O. Oppn	Processory delicis
<u> </u>	Dannid (wind on	rd NM)	2-4 ppn clay pen	In Transfe drum 263 into removerpack. (Level C) Processory delais
. 1325	Perimeter ca)1	U. Span	1/2 long of debris on pos
				Shearing is complete
1445	Perinater all	~	0.000	4.11.4
7 1 7 7 7	1 001		9.0 pm	and of desirable
				covered w/ tog
		1		1



DAILY AIR MONITORING FORM ACS NPL SITE Griffith, Indiana

Date: 11/19/9				Page / of]
Site Activity:	Drum Di.	sposal		
Sampled By:	Drum Di. Travis Klig	forth		
	SITE M	IONITORING RI	ESULTS	
TIME	MONITORING LOCATIONS	INSTRUMENT	INSTRUMENT READING	
. 925	· Perimeter - except	Photo Heziro	0.0 ppm	final box of jub is to londed MEI in level a PPE
	Perimeter			loaded
	Porinder (window	ag "	0.6-1.2 ppm	MEI in lend c PPE
	West			
		-		